

Australian Entomological Society



News Bulletin

VOLUME 18, PART 3, AUGUST 1982.

REGISTERED BY AUSTRALIA POST,
PUBLICATION NO. QBG3480

Price: \$1.25

AUSTRALIAN ENTOMOLOGICAL SOCIETY

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Immediate Past President:	Professor D.S.Kettle
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Treasurer:	Mr G.A.Holloway
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	Dr E.R.Sinclair
	Dr M.Zalucki
	Dr G.B.Monteith
News Bulletin Editor:	

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New South Wales:	Dr M.J.Fletcher
	Dr R.V.Gunning
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Victoria:	Mr G.Berg
	Dr T.R.New
Tasmania:	Mr R.Brieze-Stegeman
South Australia:	Ms P.Greenslade
Western Australia:	Mr A.Postle

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Entomological Society of Queensland:	Dr N.W.Heather
Entomological Society of N.S.W.:	Dr C.N.Smithers
Entomological Society of Victoria:	Mr P.Kelly
Royal Zoological Society of NSW:	Mr C.E.Chadwick

ADDRESSES FOR CORRESPONDENCE

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EDITORIAL

This is the first issue to be produced since the shift of News Bulletin production from Melbourne to Brisbane. We've managed a bumper issue to accommodate the backlog of material and, partly, to compensate for a skipped issue before changeover. I can assure you that Bulletin finances will not allow another issue of this magnitude in the near future! However you can look forward to a radically "new look" format for next year's first issue.

HAVE WE YOUR CORRECT NAME AND ADDRESS? Entry of the mailing list into new computer storage in Brisbane revealed many errors and omissions in the existing list. We've worked hard to tidy these up but I'm sure some still exist. We need to be sure you are getting Society publications and we can only do this if we have your correct title, initials, name and address. Please check your address label and let me know any changes required. Do it now!

Copy deadline for the next issue is October 11th.

Geoff Monteith
News Bulletin Editor

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EXECUTIVE REPORT

Meetings:

The Executive met on March 10, 1982, April 7th, 1982, April 27th, 1982 and June 2nd, 1982.

Membership:

Since the last report and the publication of the revised Membership List, 26 members have been elected. Total membership now stands at 650 and the geographical distribution is as follows:

NSW	138	Vic	84	Tas	26
Qld	147	SA	53	WA	33
ACT	98	NT	10	Overseas	61

New Members:

We extend a warm welcome to the following members:

Elected March 10th, 1982

- Mr L.J. Cookson, CSIRO Chemical Technology, PO Box 56, Graham Rd, Highett, Vic 3190. Laurie is an Experimental Officer with the Division interested in timber destroying insects and marine borers. He is also a P/T candidate at Monash, examining lignin degradation by termites.
- Mr A.I. Doronila, 71 Strathalbyn St, Kew East, Vic 3102. Augustine is interested in mosquito ecology, especially aspects of adult flight and dispersal.
- Miss L.F. Queale, Entomology Section, SA Museum, North Terrace, Adelaide, SA 5000. Lynette is interested in Diptera.
- Mr P. Ramesh, Department of Entomology, Waite Research Institute, Glen Osmond, SA 5064. Pulluri has broad interests which include insect toxicology, applied entomology and ecology, rodent pests and their ecology and control.
- Mr G.D. Rippon, 1 Calendar Place, Woodville West, SA 5011. Greg, a postgrad student is interested in toxicology, plant-insect interactions at the biochemical level and diapause.

- Mr D. Rugg, School of Plant Pathology & Agricultural Entomology, University of Sydney, Sydney, NSW 2006. Doug is interested in the Blaberidae especially the sub-family Panesthiinae.
- Dr P.W. Wellings, CSIRO Entomology, 55 Hastings Rd, Warrawee, NSW 2074. Paul, a Research Entomologist, is interested in population ecology of aphids and life history strategies of insects.

Elected April 7th, 1982

- Mr R.B. Coles, 368 Fowler Road, Bridgewater SA 5155. Robin is a Research Associate in the department interested in insect pathology and entomogenous fungi.
- Miss M. Jackson, 15 Tasman Av, Killarney Vale, NSW 2261. Margaret is a research student with Prof J.A. Thomson, working on protein synthesis in Lucilia cuprina.
- Mr D.G. James, 46 Grand Parade, Glossodia NSW 2756. David is a Technical Officer with the BCRI Rydalmere. His interests include insecticide resistance studies on mites and locusts and biological studies on Lepidoptera, in particular, overwintering biology of Danaus plexippus.
- Dr M. Lenz, CSIRO Entomology, PO Box 1700, Canberra City, ACT 2601. Michael is involved in work on social insects, especially termites and their ecology.
- Miss M.A. Terras, School of Plant Pathology & Agricultural Entomology, University of Sydney, NSW 2006. Mary-Ann is working with Lucilia cuprina with Dr H.A. Rose.
- Mr P.I. Whelan, PO Box 39592, Winellie, NT 5789. Peter is an entomologist with the Department of Health and is interested in the medically important insects especially mosquitoes.
- Mr I.J. Wood, 1 Mobbs Lane, Carlingford, NSW 2118. Ian is an Honours student, working on the systematics and evolution of the Homoptera.

Elected April 27th, 1982

- Miss D. Adidharma, Entomology Department, Waite Research Institute, PMB # 1, Glen Osmond, SA 5064. Diamayanti is a postgrad from Java and is interested in the biological control of Tetranychus urticae and pest-plant interactions in general.
- Ms J.A. Cavanaugh, CSIRO Entomology, PO Box 1700, Canberra City, ACT 2601. Juleen is an Experimental Officer in the Division, interested in biological control.
- Dr R. Fachrudin, Dept of Plant Protection, Fakultas Pertanian, University Haranuddin, South Sulawesi, Indonesia. Rudy is Head of Department and Vice Rector of the University. His interests include pest-plant relationships and biological control.
- Miss S.A. Constable, 496 Bell St, Pascoe Vale, Vic 3044. While continuing work on the control of bacterial proliferation in the fleece, Sally has commenced a part-time higher degree, investigating the effect of microbial metabolism and various antimicrobial agents on the ovipositing behaviour of the sheep blowfly.
- Mr P.M. Crossley, Queen's College, University of Melbourne, Parkville Vic 3052. Merlin's interests include the macro-photography of Lepidoptera.
- Dr S.A. Crossley, Dept of Psychology, Monash University, Clayton Vic 3168. Stella's interests include the behavioural genetics of Drosophila and Lepidopteran life cycles.
- Miss J.D. Farr, Dept of Entomology, Waite Research Institute, PMB # 1, Glen Osmond, SA 5064. Janet is a research student currently examining amino acid nutrition of Uraba lugens on Eucalyptus camaldulensis.
- Mr K.C. Khoo, The Australian Museum, College St, Sydney NSW 2000. Kay is a research assistant at the Museum.
- Mr S. Lawson, Dept of Entomology, Waite Research Institute, PMB # 1, Glen Osmond, SA 5064. Simon is a postgrad working on biological control and pest-plant interactions.

- Mr R. Ramachandran, Dept of Entomology, Waite Research Institute, PMB # 1, Glen Osmond, SA 5064. Raman is a postgraduate student.
- Mr A. Rath, Dept of Microbiology, University of New England, Armidale, NSW 2351. Andrew is a postgrad interested in viral pathogens of insects.

Elected June 2nd, 1982

- Mr G.P. Davis, Box 2617 PO Darwin, NT 5794. Geoff is a Medical Entomologist with the NT Dept of Health, whose principal interest is the prevention of mosquito borne disease in the Territory.
- Mr R.A. Vickers, CSIRO Entomology, Box 1700, Canberra City, ACT 2601. Richard is an Experimental Officer with the Division and his interests include aspects of reproduction in Pectinophora scutiger, rates of development of the immature stages.

Resignations:

It is with regret that the Executive accepts the resignation of the following members: Dr A.R. Brimblecombe, R. Zietek, Miss E. Matheson, Dr R.E. Blackith and Mr T.G. Clewett.

Change of Address:

As expected, following the publication of the Membership List, there has been a flood of address changes. In the next two issues, these changes will be progressively published.

ANNUAL REPORT, MAY 1982

The Executive is pleased to present the Society's Thirteenth Annual Report, covering the period May 1981 to May 1982.

Executive Meetings

The Executive met on nine occasions. The Representative Councillor for the Entomological Society of NSW attended meetings by invitation.

Changes of Office Bearers

At the 12th Annual General Meeting, a new President and Vice President were elected. The Executive was:

President	Professor D.S. Kettle
Vice President .. .	Assoc Prof F.J.D. McDonald
Secretary	Dr K.R. Brown
Treasurer	Mr G.A. Holloway
Chief Editor	Dr G.H.S. Hooper
Public Officer .. .	Dr P. B. Carne
Business Manager ...	Mr J.F. Donaldson

New Appointments to Council were:

General Editor . . .	Dr E.R. Sinclair
Regional Councillor (ACT)	Dr H.J. Banks
Regional Councillor (Qld)	Mr R.I. Storey
Regional Councillor (WA)	Mr A. Postle

Other Members of the Council were:

Immediate Past President ...	Dr I.F.B. Common
Taxonomic Editor	Dr R. Domrow

News Bulletin Editors .. .	Dr P. Williams
	Mr P.M. Ridland

Regional Councillors

Queensland	Dr G.B. Monteith
New South Wales .. .	Mr D.R. Smith
	Mr N.W. Forrester
Victoria	Mr P.M. Ridland
	Dr T.R. New
ACT	Mr T.A. Weir
Tasmania .. .	Mrs M.A. Williams
South Australia .. .	Mr D. Hopkins
Papua New Guinea.	Dr E.J. Brough

Treasurer's Report

A number of significant facts appear in the Society's Balance of Accounts for the year ended June 30, 1981. An increase in subscription rates was put to the membership present at the 12th Annual General Meeting on the grounds of a predicted loss in several areas, principally, the increase in costs of publication of the Journal and News Bulletin, accompanied with increase in postal charges.

Measures have been taken to avert this loss apart from the increase in subscriptions (which may have to be reviewed in one or two years) Other avenues were to reduce the arrears significantly and to increase the interest rates on investments, principally the Special Purposes Account from 4.75% to 13.5% over a six month period.

I am still concerned with the increase in the cost of publication of the News Bulletin, however, the new Editor has been given a budget and should have the help of the Editorial Assistant since they both reside in Brisbane.

With the advent of increased subscriptions, the lower rate applying if payments are made before March 1st, and the new format of the subscription reminder form, the Society is looking healthy. As to the new format of the subscription reminder form, the individual member is encouraged to put his change of address, however, there is no method of notifying members of arrears or overpayments. To correct this each member will be notified of his/her financial standing before the next subscription reminder goes out in November.

G.A. Holloway

Chief Editor's Report

This report covers the period May 1, 1981 to March 31, 1982.

Important statistics relating to the Journal of the Australian Entomological Society are given below:

Manuscripts received:	75
Manuscripts accepted:	48
Manuscripts rejected:	7

Publication data:

<u>Vol.:Pt</u>	<u>Published</u>	<u>No of pages</u>	<u>No papers</u>	<u>No book reviews</u>
20 3	Aug 24, 1981	80	13	6
20 4	Nov 30, 1981	80	10	3
21 1	Feb 15, 1982	80	11	4
21 2	May 21, 1982	80	12	3

The financial problems facing the Journal which were referred to in my last report persist. In 1982 we will only be able to publish 320 pages (4 x 80 pp) and this is leading inevitably to an increase in the time to publication - 15-19 months now appears to be the norm.

In part editorial policy can alleviate this problem. In the recently revised 'Guide to Authors' (Vol 20, part 4) it is specifically stated that manuscripts should aim for maximum brevity and that figures should be drawn and arranged in groups for maximum economy and reduction. These points are now being implemented but it is placing an increasing burden on the Editors.

To partially alleviate the Journal's problem reprint charges were increased with effect from Vol 21, part 1. reprint charges had been static for many years.

Several discussions with the printer have revealed that we are unable to achieve any significant reductions in cost by moving to a different page size, page format, type size, etc. Hence we are left with the proposition that to increase the size of the Journal we will have to obtain increased funding. At the last Annual General Meeting the possibility of introducing page charges was canvassed. This proposal has been carefully evaluated over the past months and will be considered at this Annual General Meeting.

I acknowledge the great contribution made to Journal by the Taxonomic Editor- Dr Bob Domrow, the General Editor- Dr Eric Sinclair, and to the previous General Editor - Dr Barry Moore. In addition the efforts of the many referees and of the Editorial Board members must be recognised by the Society. Without the unstinting help provided by these busy scientists the standard of the Journal would be in jeopardy.

G.H.S. Hooper

News Bulletin Report

In 1981 a total of 167 pages were printed. The introduction of limited advertising was a welcome addition of revenue which helped to reduce cost of production.

With the production of volume 18, parts 1 & 2, the Editor will reside in Brisbane in the person of Dr Geoff Monteith. The final issue of the Melbourne Editors, included the revised Membership List, prepared by the Secretary as was currently known.

We would like to thank all members who have contributed to the News Bulletin over the years and to members and non-members who have assisted in its preparation and distribution.

Peter Williams and Peter Ridland.

Environmental Quality Committee

No matters were referred to this Committee during the year.

Conservation Committee

Only one matter has been referred to the Conservation Committee, namely, the proposed pulp mill for the Glasshouse Mountains region of coastal Queensland. After liaison with Conservation bodies in Queensland a statement was prepared for the Executive, with the recommendation that the Society should express concern at the proposed mill and carefully watch further developments. Members of the Committee maintain surveillance of Forestry activities in several states.

Proposed 'protection' of several named insect species in NSW by legislation has, apparently largely because of continued pressure from local entomologists, been shelved -possibly not to reappear in a similar form. Continued need for habitat protection in NSW and WA has been stressed in letters to relevant bodies in both states.

A statement of guidelines for insect conservation in Australia, is in progress. Members may wish to note a recent review of insect conservation by Pyle, Bentzien and Opler (1981) (Ann Rev Entomol)

which contains references to legislative protection of arthropods in Australia.

T.R. New

Ian Mackerras Memorial Medal

To honour the memory of the late Dr I.M. Mackerras, the Executive established the Mackerras Medal Fund. This Fund has been in operation for twelve months, and contributions have been slow but steady amounting to \$515.00. The Executive feels that it needs several thousands of dollars before the Society is in a position to award a Medal. Notwithstanding, the Executive hopes that an Award can be made in 1983/4.

Publications

The first revision of the Membership List was published in January-February 1982. This has been a major achievement and although containing several errors, has helped to flush out over 50 changes of address. It is hoped that an updated List be published every two-three years.

The Directory is now on the way. Dr Carne was appointed Chairman of a Sub-Committee, responsible for the preparation and production of the revised Directory. As members shall see, a questionnaire is to be handed out at the AGM and other questionnaires shall be circulated by the Secretary and News Bulletin.

New Commonwealth Legislation

The Executive has learnt of new legislation, claimed to replace Regulation 13A, but despite earnest pleas from both the President and Vice President, have not been able to obtain any information from the Minister. This legislation apparently is to be submitted to Parliament in early May, 1982.

Acknowledgements

The Executive is grateful for the assistance and advice given by members. In particular, the Executive wishes to thank Peter Williams

and Peter Ridland for producing the News Bulletin for the last six years. Thanks also to Tom Weir, Jonathan Banks, Ed Highley and the countless hordes in CSIRO, who have put on a most excellent 13 AGM and Scientific Meeting. Thanks to Bob Taylor for organising the link with the Symposium on Australian Systematic Entomology.

On behalf of the Executive,

F.J.D. McDonald (Vice President),
and K.R. Brown (Secretary).

MINUTES OF 13th A.G.M.

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY INC.

Minutes of the Thirteenth Annual General Meeting held at Canberra, ACT on May 8th, 1982.

Opening

The President, Professor D.S. Kettle, opened the meeting at 1550 hrs and welcomed members.

Attendance and Proxies

The President (Chairman), and 112 members (ACT 26; NSW 24; Qld 23; Vic 22; Tas 3; SA 11; NT 2; Overseas 1). Those present held proxies for 6 members (NSW 1; ACT 1; Qld 3; Vic 1). Total Votes 118.

Deaths recorded since 12th AGM

The Chairman reluctantly announced the deaths of the following members, and asked the Meeting to show their respect by observing a minutes silence:

S.L.W. Allman, A.P. Dodd, J.L. Gressitt and J.R.T. Short

General Announcements

Members were requested to complete their questionnaires for the Directory and leave in the indicated boxes.

Minutes of the 12 Annual General Meeting

As there was no corrections or additions to the Minutes as circulated in News Bulletin (August 1982, vol 17, part 3, pp 114-24), the Chairman declared the Minutes accepted and signed accordingly.

Annual Report of the Executive

The Vice President, Associate Professor F.J.D. McDonald, presented the Report to the Meeting.

Despite extensive publicity, the response to the Student Award was not good, only one entry being received, which was not considered to be of sufficient standard to warrant the Award.

The Executive is still concerned over the worsening financial position of the Society, and as we shall hear from the Chief Editor, steps are being taken to rectify the situation at least with the Journal. As members know, the News Bulletin is to be reallocated to the Brisbane area in the form of Dr G.B. Monteith, and hopefully some economies shall be instigated there.

The revised Constitution and By-Laws voted upon by the membership during the year are almost completed. Later during the Meeting, the membership will be asked to vote on certain, somewhat cosmetic, polishing of some clauses which have been publicised previously.

No matters have been referred to the Environmental Quality Committee and only one matter was referred to the Conservation Committee, viz the proposed pulp mill in the Glasshouse Mountains of coastal Queensland. As the Committee suggested, not very much can be done, other than to keep a very watchful eye on developments.

The Ian Mackerras Memorial Fund was established and donations sought from members. Unfortunately these donations have been small in number to-date, and only some \$515.00 is in this fund. We shall be sending out a flyer to the Membership in the next News Bulletin to remind you how to make your donations to this worthy cause.

A revision of the Membership List was published in the last News Bulletin, the first revision in about ten years ... a major achievement of the Secretary. Dr Carne has been appointed Chairman of a

sub-committee to expedite the publication of a revised Directory. As members will have observed, a questionnaire was included in satchels to that end. Other questionnaires will be circulated by the News Bulletin and Secretary. Martin Rice's book should be published during 1982/3, it has been costed and arrangements are in hand towards its publication.

On behalf of all members, Professor McDonald paid tribute to the former News Bulletin editors, Peter Williams and Peter Ridland, and also to the ACT Organising Committee, in particular, Tom Weir, John Banks and Ed Highley, and to all the other members of the Division for the exceptional 13 AGM and Scientific Meeting.

Treasurer's Report: In presenting his report, the Treasurer noted the losses in the General Account (\$670) and the Publications Account (\$5716) as was predicted the previous year. However, he noted that the introduction of new subscription rates as from 1982 will make some difference in the 1981/82 year. Further, there has been a concerted effort made to reduce the subscriptions in arrears figure which has hitherto been such a large component, these have been reduced from \$5335 to \$640. Special Purposes Account and others have been placed into higher bearing interest accounts to capitalize on the increased interest rates.

Chief Editor's Report: The Chief Editor drew attention to the persisting financial problems facing the Journal which has prevented an increase in the total number of pages to be published. This has in turn meant that there is now a delay of about 15-20 months for published accepted manuscripts. In part a revised Editorial policy can alleviate part of the problem, members' attention was drawn to the revised Guide to Authors. Increased reprint charges were introduced. Discussions with the printer have revealed that no further economies can be effected by changing the format of the Journal. At the last AGM, the possibility of introducing page charges was canvassed and following extensive discussions the Executive proposed that page charges be introduced, a decision unanimously accepted by Council, from part 1, volume 22, 1983. The Chief Editor acknowledged that there would be many problems relating to the introduction of page charges which would have to be resolved beforehand. The Chief Editor

acknowledged the great contributions made by the Taxonomic Editor, Dr Bob Domrow, the current General Editor, Dr Eric Sinclair and the previous General Editor, Dr Barry Moore who is still looking after manuscripts which were in his care. Further without the support from referees and the Editorial Board, the Journal would have even more problems.

Discussion of the Executive Report:

The Treasurer was asked about Joint Membership rates (Ettershank) and in reply stated that this category had been overlooked in the general increase in subscription rates but would be rectified and back-dated. Dr Marks also asked how much was in the Ian Mackerras Fund, to which the Treasurer replied that there was \$515.00.

(There then ensued considerable discussion upon the decision of Council to introduce page charges)...

In response to a question from Dr Exley as to why page charges are to be introduced and what will it mean to Journal production, both the President and the Chief Editor indicated that whereas in the 1960's reprint income met costs, the sale of reprints was declining and a significant number of people are not ordering reprints at all. If page charges were introduced say for a 5-page script, the cost would be about the same as ordering 200 reprints, however, the charge would mean an extra 80 pages would be published each year, which would reduce the time of publication. Dr Martin Rice raised the question of other sources of revenue for the Journal such as advertising. In reply it was pointed out that although attractive in theory, there were many problems involved such as timing and the logistics and the relatively small circulation of only 700 copies, and although American and UK Journals assist with advertising, these Journals also charge page charges! Dr Alan Clift asked whether off-set printing had been examined with the view to effect production savings. Dr Hooper in reply- indicated that although this had not been done, the quality of the manuscript would have to be much better than at present, and who would re-type defective manuscripts? The President suggested that members could submit written suggestions to the Chief Editor which could prove helpful in resolving the problem. The President also pointed out to the meeting, that all Office

Bearers were acting in an honorary capacity, and that the more information members could give the Chief Editor in this case, the easier it would be to follow up such suggestions. Dr Rice then proposed that the Executive should set up an optimal number of people (3-4) to examine the finances of the Journal and to report back to the Executive. The President indicated that he would take Rice's recommendation to the Council Meeting but indicated that the unanimous recommendation of Council that page charges be introduced for 1983 stands. Erik Shipp raised the point that either a small number of authors or a large number of members pay. Bob Taylor also asked whether a levy on the membership would be a viable proposition to which the Treasurer indicated that it would only provide short term assistance. Dr Exley expressed concern that Council should not be permitted to introduce page charges in light of the discussions taking place at the AGM, that in fact, the AGM was capable of over-ruling Council. The Chief Editor also pointed out that following a survey of various institutions, the overwhelming majority supported the introduction of page charges rather than reprint charges. Martin Rice then proposed that the Meeting delay implementation of page charges until at least the next AGM when the report from the special committee could be reviewed. Bob Taylor then pointed out that Dr Rice did not seem to have confidence in Council or in the Directors who grant monies for reprints/page charges, whatever, yet he seemed to have confidence that the Society would remain financially viable! Rice stated he did have confidence in all concerned, but felt further discussion was required. Dr Kitching indicated that with his experience with the Australian Journal of Ecology when they introduced page charges, authors were notified that publication of a paper relied on its scientific merit not on the ability of the author to pay, there was no delay, and that in 3 years, only 3 authors could not pay. Dr Bellas then proposed an amendment to Rice's original motion. The amendment (seconded by Taylor) was 'that the sub-committee report to the Council before November and that Council be empowered to make their decision in the light of that report.' The amendment was put and carried *non-com*. Dr Rice's motion (seconded by Dr Morgan) that 'the Executive set up a sub-committee to investigate the finances of the Journal, to minimise the costs to the Society, maximise the number of papers published and minimise the delay in publication and report to the Society at the 14th AGM for a final decision on page charges by the members and Council.' The question was put and

carried, the amended motion that 'a sub-committee to investigate the finances of the Journal to minimise the costs to the Society, maximise the number of papers published and minimise the delay in publication and report to the Council before November and that Council be empowered to make their decision in the light of that report.' The question was put and carried with 6 against.

There being no further business relating to the Chief Editor's Report, the Chairman then invited Dr Carne, as Chairman of the Constitutional Review Committee to put those amendments.

Voting on Constitutional Amendments

Dr Carne reminded members that most of the Constitutional and By-Laws amendments had been voted upon during the year and the meeting was only concerned with clauses 13 (a), 22 and 27 of the Constitution and by-laws 16, 22 and 19(b)(v). These amendments really only entailed minor word charges. Dr Carne then put the question and it was accepted *non-com.* that the amendments be accepted.

Auditor

The Treasurer recommended that D.J. Crichton, Public Accountant, be retained as the Society's Auditor for the 1981/1982 financial year.

Announcement of Office Bearers and Councillors

The Secretary announced that one nomination had been received for each vacant position. Council had declared the following members duly elected:

President	Prof T.O. Browning
Vice President	Assoc Prof F.J.D. McDonald
Secretary	Dr K.R. Brown
Treasurer	Mr G.A. Holloway
Business Manager	Mr J.F. Donaldson
Public Officer	Dr P.B. Carne
Chief Editor	Dr G.H.S. Hooper
Technical Editors	Dr R. Domrow
	Dr E.R. Sinclair
News Bulletin Editor	Dr G.B. Monteith

Regional Councillors:

Queensland	Dr G.B. Monteith
	Mr R.I. Storey
New South Wales	Dr M.J. Fletcher
	Dr R.V. Gunning
Aust Cap Terr	Mr T.A. Weir
	Dr H.J. Banks
Victoria	Mr G. Berg
	Dr T.R. New
Tasmania	Mr R. Brieze-Stegeman
South Australia	Ms P. Greenslade
Western Australia	Mr A. Postle

The immediate Past President, Professor D.S. Kettle, then, with the approval of the Meeting, vacated the Chair to the Vice President.

Location and date of 14th Annual General Meeting

Council recommended that the 14th Annual General Meeting be held in Armidale in May 1983 and that the nature of the meeting should be determined by a Committee of members in Armidale/Tamworth in consultation with the Executive.

Vote of thanks to retiring Regional Councillors was proposed by the Vice President, seconded by Prof Kettle, and unanimously applauded.

Other Business

There being no other business the Chairman invited the Immediate Past President, Professor D.S. Kettle, to deliver the President Address, 'Forty Years of Medical Entomology.'

The Chief Of CSIRO Entomology, Dr Max Whitten moved the vote of thanks, commenting on high standard of the address and the addresser.

Closure

There being no further business, Assoc. Prof. McDonald closed the meeting at 1750 hours.

FINANCIAL STATEMENTS

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY

Publications Income and Expenditure Account for the Year

Ended 30th June, 1981

<u>1980</u>		<u>1981</u>
	<u>Income:</u>	
7986	Subscriptions received	8116
827	Interest Received	646
3610	Sales	10685
<u>12423</u>		<u>19447</u>
	<u>Less Expenditure:</u>	
2500	Opening Stocks 1.vii.1980	4250
4250	closing stocks 30.vi.1981	8000
<u>(1750)</u>		<u>(3750)</u>
18588	Printing costs	27203
723	Stationery and postages	1676
-	Bank charges	-
5	Insurance	14
-	Subscription-Entomological Society of Queensland	20
<u>17566</u>		<u>25163</u>
<u>(5143)</u>	Loss for year 1981	<u>(5716)</u>

THE AUSTRALIAN ENTOMOLOGICAL SOCIETYBALANCE SHEET AS AT JUNE 30th, 19811980

	<u>Accumulated Funds</u>	
41 427	Balance July 1, 1980	43 030
	less Profit (Loss) for year	
(5 143)	Publications	(5 716)
6 746	General Account	(670)
43 030	Balance June 30, 1981	36 644

which is represented by:

Current Assets

41	Cash on hand	32
2 256	Cash at Bank- General Account	2 665
9 901	Publications Account	2 343
9 249	Special Purpose	8 684
5 335	Subscriptions in Arrears	640
4 250	Stock on Hand -at cost	8 000
31 032		22 364

Investments

	Interest Bearing Deposits	
5 000	Publications	5 000
10 000	General	10 000
46 032		37 364

Current liabilities

220	Subscriptions in advance	155
2 782	Sundry Creditors	565
3 002		720
43 030	NET FUNDS	36 644

THE AUSTRALIAN ENTOMOLOGICAL SOCIETYGENERAL INCOME AND EXPENDITURE ACCOUNT FOR THE YEARENDED JUNE 30, 19811980

<u>Income:</u>		
10 776	Subscriptions received	6 433
1 052	Interest received	1 374
11 828		7 807

less Expenditure

388	Financial Accounting	391
194	Audit Fees	205
-	Legal Fees	120
386	Stationery and postage	108
-	Freight	130
1 758	News Bulletin	2 611
-	Student Award	216
-	Annual General Meeting Expenses	187
550	CSIRO Publication Service	460
2	Depreciation	-
1 667	Salaries Editorial Assistant	3 998
100	Petty Cash	50
37	Bank Charges and incidentals	1
5 082		8 477
6 746	Surplus (loss) for year 1981	(670)

Auditor's Report

We have examined the accounts and records of the Australian Entomological Society for the year ended June 30, 1981, and report that in our opinion the attached Balance Sheet and Income and Expenditures Accounts are properly drawn up so as to give a true and fair view of the state of the Society's Affairs as at June 30, 1981.

Melbourne, April 1982

D.J.M. Crichton, F.A.S.A.

REPORT OF 13th A.G.M. AND CONFERENCE

The 13th Annual General Meeting and Conference of the Australian Entomological Society was held in Canberra from 6th to 9th May, 1982.

The number of delegates attending was a record 228, a number which far surpassed that for any previous A.G.M. and also the expectations of the organising committee. But in contrast to the 12th A.G.M. in Queensland, few spouses or children attended. The total number of delegates can be broken down into 168 full members, 37 student members and 23 non-members, while the representation by Australian States, Papua New Guinea and overseas was as follows: A.C.T., 57; New South Wales, 53; Queensland, 38; South Australia, 29; Victoria, 27; Overseas, 13; Tasmania, 5; Western Australia, 3; Papua New Guinea, 2; Northern Territory, 2. The student component was made up largely of those studying at the University of Queensland and the Waite Institute, while the large number of overseas visitors can be explained by the fact that the Conference coincided with the official opening of the new ANIC building at CSIRO, and a visit to Australia by a delegation of entomologists from the People's Republic of China.

Most of the interstate delegates chose to stay at Burton Hall on the ANU Campus where most of the Conference activities took place and the style of accommodation and food offered for consumption were acceptable for the price paid. The Canberra weather was reasonably kind with no rain or bitterly cold days and most delegates survived the short walks from Burton to the lecture theatres without being frozen!

Proceedings began with dinner and drinks on Thursday night, held in a large marquee, erected adjacent to the ANIC building and destined to hold the people for the official opening of that building on the Friday morning. Most people had sufficient to eat and drink judging by the sounds of conviviality echoing from the marquee and some hangers-on had to be nearly forcibly evicted late that night as preparations were made for the Friday morning activities!

Friday morning saw the opening of the D.F. Waterhouse Laboratory of Insect Taxonomy by the Minister for Science and Technology

Hon. David Thompson, before a packed audience in the marquee (each delegate had received an official invitation to attend). Delegates then proceeded to the main Chemistry Lecture Theatre at ANU for a symposium entitled "Australian Systematic Entomology : A Bicentenary Perspective" and sponsored jointly by the Society and the CSIRO Division of Entomology. Seven interesting papers traced the history and development of systematics in Australia and its integration with other disciplines. The invited speakers, in order of appearance were Pat Marks, (Qld. Inst. of Med. Research), Ian Common, (CSIRO), Tony Watson (CSIRO), Tim New, (La Trobe University), Ross Crozeer (University of NSW), Bob Taylor (CSIRO) and Charles Michener (Kansas University). That night saw a fascinating after dinner dissertation and audio visual display by Elwood Zimmerman on evolution of land and life in Hawaii, despite the efforts of a go-slow projector which threatened to extend the film forever!

Saturday saw three combined sessions of contributed papers and the A.G.M. which ended with a presidential address by Doug Kettle on his 40 years as a medical entomologist. The Society dinner was held that night at the ANU Students Union and once again everyone enjoyed themselves at eating, drinking and conversing; so much so that the piano player engaged to provide background music could hardly be heard. After consultations with some who had spoken at such dinners before, it was decided that there would be no speaker this year and people be left to their own devices, a thing that they were able to do quite capably!

Sunday morning saw a slow start to the rest of the combined sessions and a spritely Doug Kettle was seen to have to return to Burton Hall when neither of the Lecture Theatres were open at 8.15 am! Despite one speaker turning up at the wrong time, the papers were delivered in the time frame given and finished before lunch-time that day. Delegates began departing after lunch, returning to the far corners of the continent and beyond, much enlightened and satisfied, if a little tired after a very full weekend. In all, they had listened to 48 contributed papers, 9 invited papers, 1 presidential address and visited 16 entomological displays.

The Organising Committee feels proud that so many delegates decided to come to the 13th A.G.M. and enjoy themselves : it made all the effort that went into staging the event worthwhile. We owe our appreciation to many : to the delegates for more than fill-

ing the number of rooms booked at Burton; to the speakers and chairmen for providing such an entertaining programme, to the exhibitors for displaying their wares; to the typists, illustrators, printers and others at the CSIRO Division of Entomology; to those who dispensed food and drink on Thursday night; to the management of Burton Hall and the ANU Union; to Ian Common and Murray Upton for advice on the programme; to Bob Taylor for organising the symposium and to those whom we have inadvertently forgotten.

Organising Committee : T.A. Weir
E. Highley
H.J. Banks

BIOLOGICAL CONTROL IN CHINA

The 13th A.G.M. Organising Committee has a supply of papers on Biological Control in China for distribution to those interested. These were available at the Conference but many delegates were unaware of their existence. They were provided by the delegation from the People's Republic of China who were in Australia to study aspects of biological control and who attended the conference. Titles available are:

1. An overview of biocontrol in China.
2. Current status of microbial pathogens to control insect pests in China.
3. Survey of application of *Trichogramma* to control of agricultural pests.
4. Natural enemies of rice leaf roller (*Cnaphalocrocis medinalis*) in Guangxi.
5. Biocontrol of vegetable pests in China.
6. Biocontrol of cotton insects in China.
7. Biocontrol agents for control of forest insect pests in China.

The above can be obtained free while stocks last from Mr T.A. Weir, CSIRO Division of Entomology, P.O. Box 1700, Canberra City. A.C.T. 2601.

NEWS FROM THE STATES AND PNG

WESTERN AUSTRALIA

Dr Jonathan Majer and Marilyn Faithfull, WAIT, have recently commenced a baseline terrestrial invertebrate survey in areas which are to be mined for bauxite. This study represents the growing interest of miners and other developers in including terrestrial invertebrates in environmental surveys. Jon will be away from WAIT during the latter half of 1982 as part of his study-leave programme. He will be looking at seed taking by ants, and also insect succession, in rehabilitated mines in the Northern Territory and Queensland.

Dr Jenny Davis is working at the UWA Department of Zoology on a Queen's Fellowship in Marine Science. Her work involves adaptations of the shell of the intertidal mollusc *Dicathais* to different water flow regimes. Prior to her taking up the position at UWA Dr Davis had worked on the taxonomy, ecology and hydrodynamics of Australian Psephenidae (Coleoptera: Dryopoidea) as her Ph.D. topic at the Zoology Department of the University of Tasmania. She is still keenly interested in fresh water insects.

And still in the Zoology Department, Ian Dadouer has commenced an M.Sc. in Acoustic Biology of Tettigoniidae (Orthoptera: Tettigonioidea) with Drs Bailey and Gwynne.

Jewel beetles (Coleoptera: Buprestidae) may be threatened by collecting and clearing and in March this year it was announced that the World Wildlife Fund, Australia was putting up \$30,000 for studies aimed at conserving them. Mr Peter McMillan of the W.A. College of Advanced Education at Claremont and Dr Shelley Barker of the University of Adelaide are hoping to commence this project in the Norseman-Balladonia district at the end of this year.

Dr Terry Houston of the Western Australian Museum visited the Australian Museum and Biological and Chemical Research Institute in Sydney and the Queensland Museum and University of Queensland in Brisbane. He examined the hymenoptera accessions in the entomology collections at these institutions, particularly native bees, as part of a project to facilitate future taxonomic studies of the group.

Nests of masarid wasps have been recorded in W.A. for the first time in the Darling Ranges near Gidgegannup. The mud-turretted structures were discovered in April by Eric McCrum, Educational Officer at the Perth Zoo, and identified by Dr Houston.

Early in May, Dr Courtenay Smithers visited Barrow Island and neighbouring smaller islands for 10 days. Here he studied local dragonflies, butterflies, Neuroptera and Psocoptera as part of a faunal survey funded by WAPET.

Dr Max Whitten (Chief) and Mr Murray Wallace of the Division of Entomology in Canberra spent a couple of days in Perth on their way to visit the South African Dung Beetle Group. They spent a day visiting the Divisional Group at Floreat Park and the Department of Agriculture Entomologists at South Perth.

There have been several visitors from the South African Dung Beetle Group over the past three months. In April, Dr Bernie Doube spent three days in Perth discussing progress towards fly control before he returned to Canberra. We were able to use his talents by having him give a talk to students from WAIT. Later in the month Dr Gus Macqueen spent a week in Perth at CSIRO after a four month period studying dung beetles with the Pretoria group: he was followed a month later by Drs Penny Edwards and Hartmut Aschenborn.

Tony Postle

QUEENSLAND

University of Queensland

Jonathon Majer, of the W.A.Inst. of Technology, has arrived for 6 months sabbatical in the Entomology Department. Pausing but briefly he left in August for two weeks in Boulder, Colorado, where he delivers a paper to a conference on social insects.

Congratulations to Anne Hill on receiving her MSc for work on colour responses in dacine fruit flies. New postgrad enrolments in the Department include Sam Firempong, from Ghana, and Martin Taylor from the biocontrol unit of CSIRO Long Pocket Laboratories.

Greg Daniels and Margaret Schneider spent a productive couple of weeks collecting at Iron Range during June-July.

Alan Fletcher Research Station

Bill Palmer has been contracted for three years' work in Temple, Texas, on the weeds Baccharis, Parkinsonia, Prosopis and Xanthium. Director Bill Haseler examined the project during his tour of various stations in Mexico and southern USA during April and May.

The Station expects to start a new South American project shortly, this time on giant sensitive weed, Mimosa invisa, utilizing the talents of Cesar Garcia in Curitiba, Brazil.

New faces among the busy tribe of graduates on temporary appointments with the mass rearing programme at Sherwood include David Sinclair, Anne Hill, Richard Piper and Jane Semple.

CSIRO Long Pocket Laboratories

A divisional reshuffle has seen most of the staff involved with tick work, previously in Division of Animal Health or Division of Entomology, combined together in the new Division of Tropical Animal Science. This leaves only the biocontrol unit and Rob Sutherst's section still in the Division of Entomology.

Congratulations to Rob Sutherst who received the foundation Bancroft-Mackerras Medal for Research Excellence awarded by the Australian Society for Parasitology. Also, belated congratulations to Harry Wharton, whose O.B.E. in the New Year's list went unnoticed by this Bulletin.

Smiles on Don Sands' face reflect the fact that his doctoral thesis on "Taxonomy and Biology of the Tribe Luciini (Lycaenidae)" has come through with flying colours. Lepidopterists now look forward enthusiastically to the publication of his deliberations on this difficult and intriguing group of butterflies.

D.P.I. Entomology Branch

A new appointment to the Branch is Pat Collins, recently of the University of Queensland. After an initial period at Indooroopilly Pat will be posted to Atherton where he replaces Neil Gough who transfers to Indooroopilly in September.

Welcome back to Bryan Cantrell on his return from three months Churchill Fellowship spent studying tachinid types at the British

Museum. Bryan also managed to get to the Paris Museum and reports that access to the old types has solved many of his problems of identification of Australian species.

Queensland Museum

Stewart and Jarmila Peck of Carleton University, Ottawa, spent a productive week at the Museum in August studying, respectively, leioidid beetles and fossil Homoptera. Prior to that they had spent two months on an extensive collecting tour of Queensland rainforests as far north as Cooktown.

Geoff Monteith

VISITORS TO FAR NORTH QUEENSLAND

Jenny Gardner, of University of Adelaide, spent a week early in the year collecting Buprestidae on the tableland. Max and Barbara Moulds made their annual extended visit in search of cicadas and sphingids but had disappointing results due to the dry season. John Moss spent several weeks working in Atherton and also found time to pursue some cicadas.

John den Hollander, from University College, Cardiff, spent time trying to get live specimens of the leafhopper, Nilaparvata lugens, for colony establishment and type testing. Elmo Hardy, noted dipterist from Hawaii, spent a few days here and had discussions with DPI staff on fruit flies.

Butterfly visitors included: Trevor Lambkin and Ian Knight, of Brisbane, who collected from Paluma to Almaden in April, at the latter locality they took Virachola breeding in Strychnos fruit; John d'Apice and Grant Miller, of NSW, who made a dual visit to Groote Eylandt (many Adaluma) and Iron Range in May; David Crosby, of Victoria, who visited Cairns-Kuranda in May; and Don Sands and John Kerr, of Brisbane who journeyed to Iron Range in July.

Geoff Monteith, assisted by David Yeates and Doug Cook, spent 3 weeks in April continuing his surveys of mountain top insects in north Queensland. Mountains tackled included Mt Finnigan, Black Mtn, Windsor Tableland and Mt Fisher. A new peloridiid genus was taken on Finnigan.

Ross Storey

SOUTH AUSTRALIACSIRO Division of Soils

Ken Lee is overseas at present visiting soil biology institutions in China, North America and Europe.

South Australian Museum

A. Hutson, British Museum (Natural History) examined collections of Diptera (Hippoboscidae) during May. Ev Britton, CSIRO Division of Entomology, Canberra (Honorary) visited collection in April to look at holdings of Coleoptera and hold discussions with Eric Matthews on future volumes of Eric's Guide to South Australian Coleoptera genera. Ed Callan, CSIRO Division of Entomology (Honorary) looked at distributional data of a species of Sphecidae.

University of Adelaide, Zoology Department

Derek Duckhouse is on study leave in South America visiting Uruguay among other places and collecting Psychodidae.

Department of Agriculture

Peter Bailey visited CSIRO Division of Entomology, Hobart, and the Tasmanian Department of Agriculture, Hobart, for a week in April to learn techniques for mass production of nematodes. Robin Bedding, Ray Akhurst and Tony Molyneaux gave assistance with aspects of insects nematology and Laurie Miller demonstrated his prototype nematode spraying machine. It is hoped to use nematodes against a number of soil-dwelling insects in South Australia starting with the sitona weevil.

The Chinese delegation on Biological Control were hosted by the S.A. Department of Agriculture on the 30th April and 1st May 1982. Their visit included discussions with entomologists at the Northfield Research Laboratories and the Waite Institute, and an excursion to Loxton where they visited Ron George's commercial insectary involved in the biological control of red scale and the Department of Agriculture Research Centre.

Janet Comery, Victorian Department of Agriculture visited the Entomology Unit at the Northfield Research Laboratories on the 26th and 27th May to discuss field crop entomology with particular reference to the pea weevil.

Waite Institute - Entomology Department

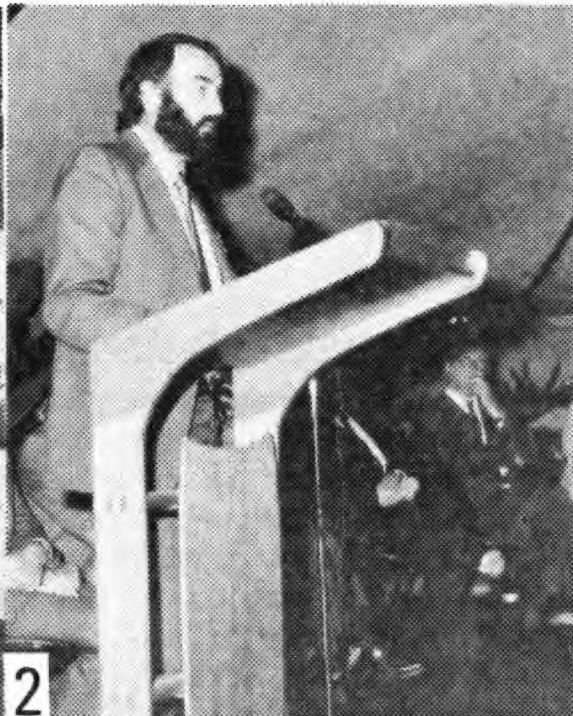
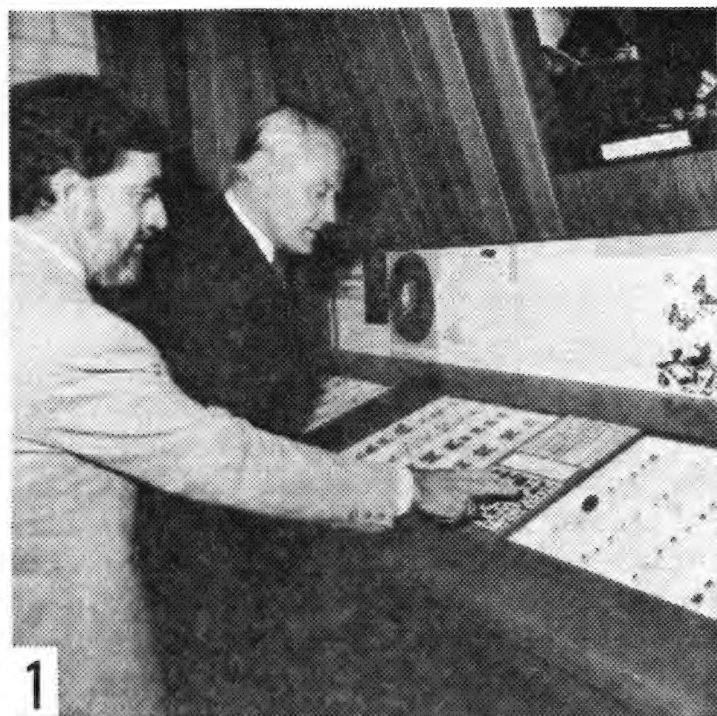
Visitors have included Dr R. Fachrudin, Hasanuddin University, South Sulawesi (Indonesia) spent two months in the Department on an AUIDP Fellowship to do Research on biological control and to translate Dr F.D. Morgan's "Manual of Plant Protection" into Indonesian. Miss J. Comerey from the Victorian Department of Agriculture visited the Department on 27 May as part of an information tour on a pea weevil project. Dr B.M. Doube, of CSIRO Dung Beetle Research Unit, Pretoria, South Africa, visited the Department and gave a seminar on his work on 15 June, 1982.

Dr P.R. Samson, who has been appointed to a two-year research associateship under a grant from the Waite Institute Research Committee, commenced duty on 1 February. He is working with Dr Morgan on the quantitative evaluation of the effectiveness of natural enemies introduced for the biological control of an insect species, with particular reference to the pine bark beetle, *Ips grandicollis* Eichh.

Mr R. Ramachandran of the I.A.R.I., New Delhi, joined the Department to study for a higher degree under the supervision of Drs Morgan and Miles. He is studying the influence of insect attack on changes in the chemical components of plants, and is supported by a University Postgraduate scholarship. Miss Dhamayanti Adidharma, an A.U.I.D.P. - sponsored student from Indonesia, has commenced study of aspects of the biology and ecology of the two-spotted mite, *Tetranychus urticae*, under Dr Morgan's supervision. Mr Zhao Jingwei, a Home Government sponsored trainee from China, is studying differential effects of extreme temperatures and humidity on red scale and its parasites, under the supervision of Drs Maelzer and Laughlin.

Two Honours students in the Department are Mr Gregory Rippon, who is studying the use of a chemical assay for mixed function

(cont. on p.64)

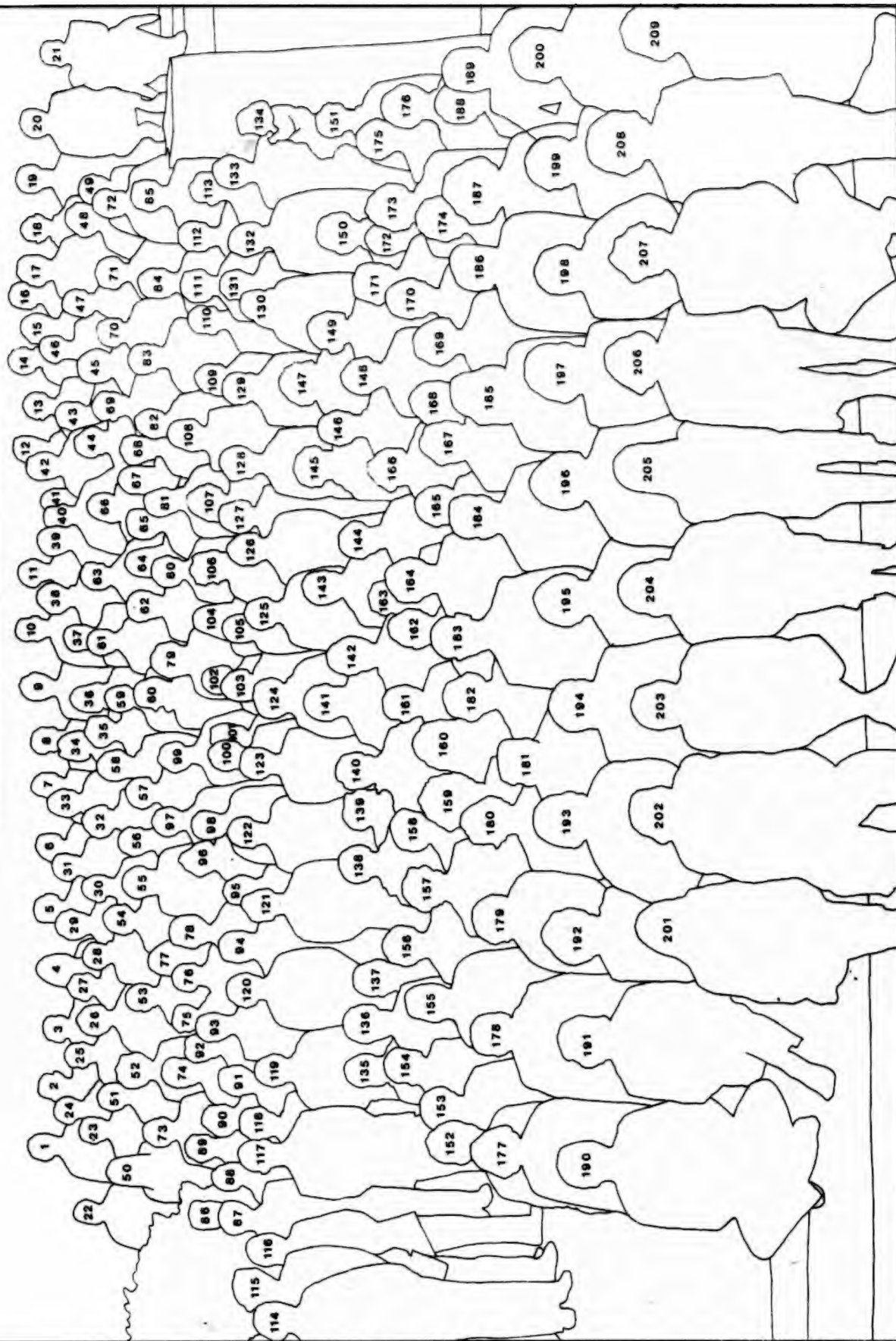


OPENING OF THE A.N.I.C. BUILDING: (1) Chief Curator Bob Taylor shows displays to Science Minister Thompson; (2) CSIRO Divisional Chief Max Whitten speaking at opening ceremony; (3) Faith Evans views her father, Robin John Tillyard, at the displays; on left is her daughter-in-law, Helen Evans.



CONFERENCE FACES: (1) Dipterist triplet, Elmo Hardy, Dick Drew and Don Colless; (2) Retiring President Doug Kettle; (3) Roger Farrow and S.A.Councillor Penny Greenslade; (4) Tom Bellas and Conference Organiser Tom Weir; (5) Elizabeth Exley and Tony Watson; (5) Vice-President Fred McDonald.



KEY TO THE CONFERENCE PHOTOGRAPH

INDEX TO THE CONFERENCE PHOTOGRAPH

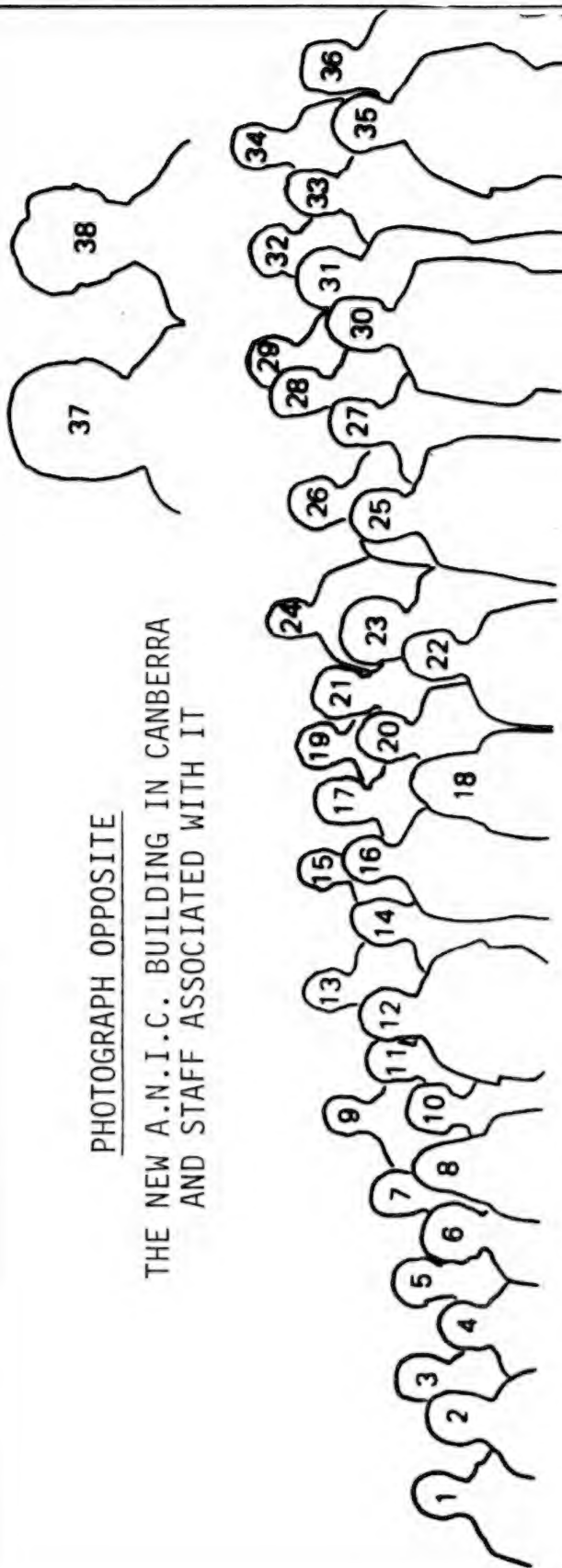
- 1 DR R.A.I. DREW
 2 DR D.E. HARDY
 3 DR R. SMITH
 4 DR T.K. CROSBY
 5 DR R.J. BARTELL
 6 MR T. PASSLOW
 7 MR T. GREAVES
 8 DR D.K. MCPALPINE
 9 PROF. C.D. MICHIENER
 10 DR A. CLIFT
 11 MR K. WALKER
 12 MR J. BALDERSON
 13 DR D.F. WATERHOUSE
 14 DR J.M. DEARN
 15 MR A. MOORE
 16 MR G. DANIELS
 17 DR S. NESER
 18 REV. B. LOWERY
 19 MR E.D. EDWARDS
 20 DR R.A. FARROW
 21 MR G. VAN DE KLASHORST
 22 PROF. J.A. THOMSON
 23 PROF. D.S. KETTLE
 24 DR G.H.S. HOOPER
 25 MR A.G.L. WILSON
 26 DR G.A.C. BEATTIE
 27 DR T.D.C. GRACE
 28 DR R.J. HARDY
 29 DR R.W. TAYLOR
 30 DR D.F. HALES
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 32 DR E.M. EXLEY
 33 PROF. G. BUSH
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 41 MS R.C.H. SHEPHERD
 42 MR D.R.J. SMITH
 43 DR K.H.L. KEY
 44 MR P.B. HUGHES
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 48 MRS M. SPENCER
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 81 XHIS CHENG-FENG
 82 MR C. FREEBAIRN
 83 MR M.B. FLETCHER
 84 XIAO GANG-ROU
 85 DR R.P. FIELD
 86 MR A. FRAZER
 87 MR M. SCHWARZ
 88 MS M. KOTZMAN
 89 MRS S. WENTWORTH
 90 MISS B.W. SORBY-ADAMS
 91 MR D. YEATES
 92 DR E.C. ZIMMERMAN
 93 DR K.G. WARDHAUGH
 94 MR M. O'DONNELL
 95 DR J. BRYAN
 96 DR J.D. CHARLWOOD
 97 DR R.E. TEAKLE
 98 DR A.W. SWEENEY
 99 DR R. MILNER
 100 MS M. DEBENHAM
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 102 MS Z. LIEPA
 103 MISS J.C. CARDALE
 104 MS J.A. CAVANAUGH
 105 DR R.V. GUNNING
 106 MS H.M. BROOKES
 107 MISS M. JACKSON
 108 MS D. DAVIS
 109 LI QING
 110 FANG CHANG-YUAN
 111 MR K.C. KHOO
 112 ZANG CHING
 113 DR R. LAUGHLIN
 114 MR T.A. WEIR
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 135 MISS J. RIENKS
 136 MR R.A.H. DAVIES
 137 DR M.J. RICE
 138 MR E. HIGHLEY
 139 MR P. WEBB
 140 MR R.G. LUKINS
 141 DR P. GREGG
 142 MR J.R.E. HARDY
 143 MR C.B. HALE
 144 MR C. RAMACHANDRAN
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 146 MR G. TAYLOR
 147 MR J. McDONALD
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 159 DR J.H. BANKS
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 161 DR I.F.B. COMMON
 162 MR M.S. UPTON
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 165 MR A. ATKINS
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 167 DR G.D. RIPPON
 168 MRS B.J. MOULDS
 169 MR M.S. MOULDS
 170 MR M.S. HARVEY
 171 DR T.R. NEW
 172 MR M. TAYLOR
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 174 DR P. SAMSON
 175 DR J.L. MADDEN
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 183 DR E. CALLAN
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 185 MR P.C.E. BAILLY
 186 MR C.H. EISEMANN
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 188 MRS M. TYNDALE-BISCOE
 189 DR D. MORGAN
 190 MR R. BUNGEY
 191 MR K.D. FAIREY
 192 MS P. GREENSLADE
 193 MR W. JORGENSEN
 194 DR K.C. BINNINGTON
 195 MR E.C. DAHMS
 196 DR G. ETTERS HANK
 197 MRS J. ETTERS HANK
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 212 MR D. MERRITT
 213 DR B.P. MOORE
 214 DR R.J. ROBERTS
 215 DR E. CALLAN
 216 ASSOC. PROF. F.J.D. McDONALD
 217 MR P.C.E. BAILLY
 218 MR C.H. EISEMANN
 219 DR R.E. JONES
 220 MRS M. TYNDALE-BISCOE
 221 DR D. MORGAN
 222 MR R. BUNGEY
 223 MR K.D. FAIREY
 224 MS P. GREENSLADE
 225 MR W. JORGENSEN
 226 DR K.C. BINNINGTON
 227 MR E.C. DAHMS
 228 DR G. ETTERS HANK
 229 MRS J. ETTERS HANK
 230 DR J. FRENCH
 231 DR J.F. LAWRENCE
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 239 DR M.B. MALIPATIL
 240 DR M. CARVER
 241 MISS D. ADIDHARMA
 242 DR J.M.E. ANDERSON
 243 MR A.D. AUSTIN
 244 DR E.B. BRITTON
 245 MR P. COLLINS
 246 MR B.K. CANTRELL
 247 DR S. CROSSLEY
 248 MR I. CAMPBELL
 249 DR B.K. FILSHIE (Photographer!)
 250 DR R.D. HUGHES
 251 DR M.D. LOWMAN
 252 DR C.P. OHMART
 253 MR K. PULLEN
 254 MR L.A. RADUNZ
 255 DR G.H.L. ROTHCHILD
 256 MR M.M.H. WALLACE
 257 MS T. FLOWER
 258 DR E.S. DELFOSSE
 259 MR B. POVEY
 260 MRS V. POVEY
 261 MR A. LYMBERY
 262 DR D. GWYNNE

ABSENT FROM PHOTOGRAPH



PHOTOGRAPH OPPOSITE

THE NEW A.N.I.C. BUILDING IN CANBERRA
AND STAFF ASSOCIATED WITH IT



- | | | | |
|----------------------|------------------------|-----------------------|---------------------|
| 1. Mr I. Campbell | 11. Dr I.D. Naumann | 21. Dr D.C.F. Rentz | 31. Ms R. Sadler |
| 2. Dr R.W. Taylor | 12. Dr M.J. Whitten | 22. Ms Z. Liepa | 32. Mr T.A. Weir |
| 3. Dr K.H.L. Key | 13. Mr J. Balderson | 23. Dr H.J. Banks | 33. Ms H.M. Abbey |
| 4. Miss J. Cardale | 14. Ms J.E. Pyke | 24. Dr E.C. Zimmerman | 34. Mr M.S. Upton |
| 5. Mr A.F. Atkins | 15. Dr I.F.B. Common | 25. Dr K.R. Norris | 35. Mr P. Ferrar |
| 6. Ms T.V. Rangsi | 16. Dr D.F. Waterhouse | 26. Dr A.A. Calder | 36. Dr B.P. Moore |
| 7. Mr M.M.H. Wallace | 17. Dr E.B. Britton | 27. Dr D.H. Colless | 37. Dr P.B. Carne |
| 8. Dr P. Gullan | 18. Ms M.L. Johnson | 28. Dr J.A.L. Watson | 38. Mr E.D. Edwards |
| 9. Mr E. Holm | 19. Dr M. Carver | 29. Dr J.F. Lawrence | |
| 10. Mrs W. Allen | 20. Mr S.P. Kim | 30. Mr F.J. Gay | |

oxidases to screen insects for their degree of susceptibility to insecticides, under Dr Miles' supervision; and Ms Karen Gibb, who is studying the co-ordination of the life cycles of *Contortylenchus* and its host *Ips grandicollis*.

Congratulations to Mr M.S. Awan and Ms Heloisa Mariath, who have both recently been awarded Ph.D. degrees.

Dr D.E. Pinnock will be on study leave until the end of January 1983. He will visit Rothamsted Experimental Station, and the Glasshouse Crops Research Institute, Rustington, Sussex in the U.K., the Boyce Thompson Institute, Cornell University, and the University of California at Berkeley in the U.S.A. Professor Browning is expected to return to Adelaide from his study leave by the middle of July.

Mr Andrew Austin, who submitted his Ph.D. thesis in February this year, has been appointed to the position of Entomologist in the Commonwealth Institute of Entomology. He will be based in London at the British Museum (Nat. Hist.) and will be working on the taxonomy and biology of hymenopteran parasitoids of economic importance. Andrew begins duties there in early October, 1982.

The S.A. Agent-General in London advised that in its radio programme 'Farming Today' the B.B.C. recently reported the Entomology Department's work on biological control of the sheep blowfly. This work is being carried out under the direction of Dr D.J. Cooper. The department is obtaining a transcript of the radio broadcast.

Book Notices

The Proceedings of the Third Australasian Conference on the Ecology of Grassland Invertebrates held in Adelaide in December is currently at the Printers and is due out shortly. Information on the availability and price from Barry Hutson, CSIRO, Division of Soils, Glen Osmond, S.A. 5064.

Another Adelaide production is the Evolution of the Flora and Fauna of Arid Australia eds. W. Barker and P.J.M. Greenslade. This is the proceedings of a symposium held in Adelaide in May 1980 of which the Aust. Ent. Soc. was one of the sponsors. It is being

published by Peacock Publications, Glen Osmond, S.A. 5064, and is expected to be available in September, price about \$30. The proceedings include 5 (out of 40) contributions which deal with terrestrial arthropods: mygalomorph spiders (York Main), meat ants (J. Greenslade, Halliday), seed-harvesting ants (Morton), the termite genus *Drepanotermes* (Watson), and Collembola (P. Greenslade). The small proportion of the book concerned with invertebrates perhaps emphasises the need for more taxonomic and zoogeographical research in these areas especially when one considers the large land mass of arid and semi-arid Australia and the high diversity of many insects and other arthropod groups there.

The publication should provide a useful background for entomologists since it also covers arid landscapes, soils and vegetation, including the development of aridity in Australia. Other topics include arid adaptations of plants, adaptations and evolution in the main vertebrate groups and accounts of the history and biogeography of a range of plant taxa. Among these are the ecologically important genera *Acacia*, *Atriplex* and *Triodia*.

Points that are brought out in the book include a probable southern origin for aridity in Australia and the significance, to the arid zone, of evolutionary events in semi-arid zones. A paper on the responses of Australian biota to different thermal and moisture regimes suggests a fruitful field for work on thermal adaptations in insects. Other topics that are touched on of interest to entomologists are the role of insects in pollination and seed dispersal.

Penny Greenslade

NEW SOUTH WALES

The Australian Museum

"In the Wild" with Courtenay Smithers. Courtenay was on Barrow Island, Western Australia, from 1 May to 19 May to carry out part of a faunal survey of the Island with Harry Butler. The visit was sponsored by a grant from the W.A. Petroleum Company.

Dick Drew, D.P.I. Indooroopilly, and Elmo and Agnes Hardy from the University of Hawaii visited Sydney on the way to the 13th A.G.M. in Canberra. While here they spent time in the Diptera

collections of the Australian Museum, the Department of Agriculture at Rydalmere, the Commonwealth Institute of Health at Sydney University and the C.S.I.R.O. Research Station at Warrawee.

Terry Houston, Western Australian Museum, was in Sydney for the first week of June to look through the native bee collections of the Australian Museum and the Department of Agriculture. Terry presented a talk to the Entomological Society of NSW on June 2.

Dr S.N. Endrody-Younga, specialist in Tenebrionidae from the Transvaal Museum, South Africa, will be visiting the Australian Museum from September to December this year.

The Department of Agriculture, B. & C.R.I., Rydalmere

Prof. Walter C. Dautermann, Professor of Entomology and Toxicology at North Carolina State University, is a visiting scientist at B. & C.R.I. for twelve months from 1st July. Prof. Dautermann will be working with Paul Hughes on biochemical aspects of insecticide resistance in the sheep blowfly, *Lucilia cuprina* (Wiedemann) and other insects.

Mr D. Visser, Director of Wool Production and Development for the Wool Board of South Africa, visited Paul Hughes on 29 June to discuss chemical control of the sheep blowfly.

University of Sydney, Faculty of Agriculture

Kevin Lambkin was awarded a Ph.D. in March for his thesis entitled "Australian Mantispidae (Insecta, Neuroptera)".

This year, in the Department of Plant Pathology and Agricultural Entomology, considerable research effort is being directed towards *Spodoptera litura* (Fabricius), the cluster caterpillar. Katy Whitfield, final year agriculture student, is examining the growth of various stages under different temperature regimes, while Ian Tordoff, M.Agr.Sc. student, and Dip. Agr. students Roger Allanson and Enzo Casagrande are investigating the insect's mixed function oxidase system.

Commonwealth Institute of Health

Dr Joan Bryan has been appointed Head of the Institute following the retirement of David Lee in 1980. Dr Bryan, who was trained at the University of Queensland, spent 10 years at the London School of Tropical Medicine and 6 years at the British Medical Research Council Institute in The Gambia, West Africa, before taking up her appointment at C.I.H. in May, 1982. Special congratulations are due to Joan for her receipt of Honours in the Queens Birthday List in recognition of her medical entomology work in many parts of the world, often carried out under conditions of political unrest, physical discomfort and personal danger.

Murray Fletcher

NEW SOUTH WALES - COUNTRY

Several N.S.W. country entomologists recently attended the Annual General Meeting of the Australian Entomological Society in Canberra, they were Angus Wilson, Kevin Bodnarak, Reg Roberts, Peter Gregg, Neil Forrester, John Hosking and Robin Gunning.

At the Tamworth Agricultural Research Centre, there have been two recent visitors to the entomology section. Mr Luk Brun, a French entomologist from New Caledonia, who discussed insecticide bioassay methods, and Mr Greg Rippon, a student at the Waite Institute who spent a few weeks investigating *Heliothis* biochemistry. Neil Forrester, an entomologist at Tamworth, will transfer to the Narrabri Agricultural Research Station in September.

In Armidale at the University of New England, Andrew Raft has commenced work in the Microbiology Department on a virus of the spotted potato moth. In the Zoology Department, Prof. Tony O'Farrell has recently retired. Prof. O'Farrell plans to continue to study the Odonata at his leisure in retirement.

Visitors to Orange Agricultural and Veterinary Research Centre over the last few months have included Dr R. Henzell, from the Ministry of Agriculture and Fisheries in New Zealand. Ron, who is well known in entomological circles for his work on New Zealand grass grubs, is currently working with the CSIRO Division of Plant Indust-

He visited Orange to discuss his project
members. In May, the Biological Control Mission
Republic of China inspected the centre and discussed
biological control of Orchard Mites with Colin Bower and
Inwaite.

New South Wales Department of Agriculture entomologists at the
Gosford Horticultural Research Station, Alan Bishop and Steve
Goodwin, were recently visited by Luk Brun from New Caledonia to
discuss insecticide bioassay methods. Steve Goodwin attended the
International Conference of the Plant Propagation Society in Can-
berra where he gave a paper on "Integrated pest control of two
spotted mite on ornamental plants propagated under greenhouse condi-
tions".

Robin Gunning

VICTORIA

La Trobe University, Department of Zoology

Dr W. Danthanarayana is at present on study leave, working on
cotton pests with Winfield Sterling in Texas. Ian Thornton is also
overseas, looking at psocid types in Europe before spending several
months in Hawaii later this year. Recent visitors to the depart-
ment include Dr Randy Thornhill (University of New Mexico) who has
spent about six months based at University of Melbourne.

Recent postgraduate students include Kristin van Brunschot,
formerly of Macquarie University, who is working on biology of
Coccinellidae, and Peter Ridland, investigating relationships
between aphid infestation and transmission of Barley Dwarf
Yellows Virus, both with Tim New.

Monash University, Department of Zoology

Bryan Roberts has just returned from study leave in the U.S.A.,
where he worked at UCLA and U North Carolina, Chapel Hill. Mark
Harvey has received an ABRs grant, and is currently collecting
pseudoscorpions in the Big Desert. Sherrie Wentworth has completed

her PhD on 'Ecdysteroid titres during development of the fleshfly, *Sarcophaga bullata* (Parker)'.

George Ettershank, temporarily abandoning insects, is working full-time on krill, especially on their ageing. He visited Tasmania in early July for discussions with staff on the Antarctic Division, and to give a seminar. Mandy Kotzman has made several trips to Coombah Station, S. of Broken Hill, in the course of her work on barking spiders, and Michael Schwarz has started work on native bees.

Plant Research Institute, Burnley

Professor Bill Ruesink (University of Illinois) has been working at the P.R.I. as Visiting Scientist. Bill has a great deal of experience with pest management systems and has helped to develop a number of pest forecasting models. In May, he visited entomologists at Canberra, Rydalmere and Gosford. A computer terminal has recently been installed at Burnley and will facilitate the use of Bill's models.

Peter Stahle has been awarded a Ph.D. from La Trobe University for his thesis entitled "An Ecological Study of the Harlequin Bug, *Dindymus versicolor* (H. Sch.) (Hem. Pyrrhocoridae)".

Garry McDonald has been awarded a M.Agr.Sci. for his thesis "Aspects of the Ecology of the Common Banded Mosquito, *Culex annulirostris* Skuse, a Major Vector of Murray Valley Encephalitis Virus."

Two new entomologists have joined the staff at P.R.I. Janet Comery is working on field crop pests, in particular Pea Weevil and *Heliothis*. Janet recently visited the Northfield Research Labs., the Waite Institute and the S.A. Museum to discuss her work. Mark Perry has been working closely with Bill Ruesink and will become involved with field crop pests.

Ross Field has now left the P.R.I. to join the Lands Department at the Keith Turnbull Research Institute, Frankston, as Section Leader in Biological Control of Noxious Weeds.

Dr Albert Minks (Wageningen) visited the P.R.I. during February and gave an interesting seminar on Integrated Control in the Netherlands.

A Chinese delegation on Biological Control visited the Institute in May.

Peter Ridland attended an Aphidologist's workshop at Sydney, and visited Mary Carver in Canberra in July.

Dave Morris is currently overseas on long service leave, and plans to attend the Fourth International Colloquium on Invertebrate Pathology and Microbial Control in England in September, as does Carl Reinganum.

Terry Amos, John Macfarlane and Steve Gagen attended the AES annual general meeting and the opening of the D.F. Waterhouse Laboratory of Insect Taxonomy, and the Symposium, in May. Prior to these Terry attended a meeting of the Chief Entomologists.

John Macfarlane and Peter Shelden visited the DPI Laboratories at Indooroopilly in June to discuss Queensland fruit fly work.

Malcom Campbell visited the Queensland Agricultural College, Lawes, to address the Pesticide Application Course in June.

Sunraysia Horticultural Research Institute, Irymple

Greg Buchanan spent three weeks of February-March in New Zealand studying phylloxera, with financial support from the Australian Wine and Brandy Corporation and the Phylloxera Board of South Australia. A highlight of the trip was a field trip to Gisborne with Doug King (N.Z. entomologist) and Richard Smart for the purpose of "ground truthing" aerial infra-red photographs of phylloxera damage. Greg spent most of the time with Doug King discussing the biology and damage by phylloxera, and gleaning a few ideas for research in Victoria.

I.C.I., Melbourne

Dick Davies is now the manager of the "Electrodyne" sprayer project - investigating a novel method of pesticide application. Pat Collingwood has taken over Dick's old position at Merrindale.

Tim New
Gordon Berg

AUSTRALIAN CAPITAL TERRITORYCSIRO Division of Entomology

The Division held an open day on June 27 to allow the public to visit the Australian National Insect Collection in its new quarters and also to see the work of the general biology section. There was a lively response from the public with the building crowded for much of the day. Sufficient interest was aroused for it to be acknowledged by the following cartoon next day in the "Canberra Times":



Jim Desmarchelier, at present working in Berlin at the Institut fur Vorratschutz has had his grant there extended and will now be returning in March, 1983. There are strong rumours, from usually reliable sources, that he is now married.

The Stored Grain Research Laboratory was visited on May 31 by Mr P. Ramachandran and Mr S. Vijayaraghavan, respectively Chairman of the Food Corporation of India and Chief of its Project Implementation Division. They were studying newer Australian grain storage technology.

Ian Common, whose retirement is recorded elsewhere in this Bulletin, has been made an Honour Member of the Sociedad Hispano-Luso-Americana de Lepidopterologia. Arthur Mills, also now retired was awarded the British Empire Medal for long service to CSIRO. Congratulations to both.

The Division was visited on May 6 by a mission from the People's Republic of China studying biological control methods.

Australian National Parks and Wildlife Service

Lionel Hill, a graduate from University of Queensland who has worked in recent years in Hobart, has taken up duties with the Service in Canberra where he will be helping with preparation of management plans for National Parks under Commonwealth control. Lionel would be happy to hear from any entomologists on the subject of insects in national park management. He is also continuing his systematic studies on schizopterid bugs and would be happy to see new collections.

Meetings

The Commonwealth and States Chief Entomologists met in Canberra on May 6. The Australian Meat Research Committee Second Workshop on Dung Beetle Research was held from 24 May to 4 June at CSIRO. It was attended by many of those involved in dung beetle investigations across Australia, plus four members of the Dung Beetle Research Unit in Pretoria, and Drs S.E. Kunz and T. Fincher of USDA.

Jonathon Banks
Tom Weir

TASMANIA

Dr Lawrence Mound from the British Museum of Natural History visited Tasmania in May for a few days. In between collecting trips with Margaret Williams, he gave a talk on thrips and also gave an insight into the B.M. where he heads the Entomology Department, his title being Keeper of Entomology.

Several insect pathologists visited Hobart in May to attend or address the Microbiological Conference session on Biological Warfare. Richard Milner, CSIRO, Canberra, Dudley Pinnock and David Cooper, Waite Institute and Graham Baker, N.S.W. Department of Ag. visited the CSIRO laboratories in Hobart to inspect the nematode breeding facility and talk to Robin Bedding and Ray Akhurst. The T.D.A. Res. Labs at New Town was also visited by the group for mutually beneficial talks with the local Entomologists. Entomologists from the CSIRO and State Department got together to have an enjoyable lunch with the visitors. Only two entomologists needed introduction to each other, one from Battery Point and the other from New Town, much to the visitors' amusement.

A joint meeting with the Aust. Inst. Ag. Sc. was held in June where Dr Robin Bedding from the CSIRO and Mr Laurie Miller from the T.D.A. gave a most interesting talk on "Insect Parasitic Nematodes as Biological Control Agents and their application in Tasmanian Agriculture and Forestry". Apart from a few problems with a "past-it" slide projector, the evening was a great success.

Tasmania was well represented at the Society's AGM and symposium when 22% of our membership found themselves (mostly) accidentally and coincidentally in Canberra at the time. The five members Bob Hardy, Margaret Williams, Peter McQuillan, Ted Martin and John Madden, all had most favourable reports of the event.

The first annual dinner of the Tasmanian sector of the Society is being planned for the 21 August.

CSIRO Division of Entomology

Dr Philip Myers from Bio-Technology Australia visited Robin

Bedding and Ray Akhurst to discuss the commercial development of mass rearing insect pathogenic nematodes. He also visited T.D.A. Research Labs to talk to Laurie Miller about practical applications and possible potential markets for such a bio-product in Tasmania.

Forestry Commission

The Tasmanian Forestry Commission has introduced a program whereby pests and diseases are monitored in forests throughout the State on a yearly basis. Their resident forestry Entomologist, Humphrey Elliot, will be playing his part in improving communication between district and research staff through these yearly visits.

University of Tasmania

John Madden recently spent 1 month in Malaysia on an Aust. Uni. Int. Devel. Prog. assignment. He was based at the University of Pertanian where his project was concerned with the teaching and researching of Forestry Entomology.

Mr Asis Alishah has arrived from Pakistan to work on a Ph.D. program on integrated control.

Rod Brieze-Stegeman

NORTHERN TERRITORY

(Editor's Note: The Northern Territory has one short of the 10 members required to qualify for a Regional Councillor. However, Dr M.B. Malipatil has kindly agreed to compile N.T. news for the Bulletin. This, the first report from the "Top End", is a comprehensive one to set the scene for future reports.)

N.T. Department of Health, Medical Entomology Section

This is a small unit, set up in 1972, with the major objective to carry out entomological investigations to aid in the prevention of mosquito borne diseases in the Northern Territory. At present there is a staff of four: Peter Whelan and Geoff Davis (Entomologists), Kevin Hodder (Technical Officer) and Wendy Kelton

(Technical Assistant). The section has a comprehensive entomology laboratory in Darwin and a mobile field caravan laboratory to aid in mosquito investigations throughout the N.T. The laboratory houses a reference collection of N.T. mosquitoes, including a number of undescribed species, and is a reference centre for N.T. insects of medical importance. Mosquito monitoring is carried out in the Darwin area and other programs are co-ordinated in other major towns to enable advice on mosquito control to local authorities. Investigations are carried out around imported malaria cases and new development areas to reduce the potential for disease. Quarantine procedures to prevent the reintroduction of Aedes aegypti (the dengue mosquito) to the N.T. have been successful and the section maintains a surveillance program. The current virus isolation program carried out with the Department of Primary Production has produced a number of mosquito borne viruses, and this work will prove very illuminating in the field of mosquito borne disease in the N.T.

Department of Primary Industries

This Department has three sections concerned with entomology.

The Division of Agriculture and Stock Entomology Section has a staff of four: Allan Allwood (Senior Entomologist) - fruit flies, control of insect pests of tropical and sub-tropical crops and fruit trees; Ian Cook (Entomologist) - rice insect control; Geoff Strickland (Entomologist) - insect pests of grain legumes; Colin Wilson (Technical Officer) - curation of reference insect collection, citrus leaf miner studies.

Ian Cook is spending July at the International Rice Research Institute, Philippines to look at latest research and developments in control of insect pests of rice.

The Weeds Section (Biologist : John Gillett) is carrying out research and extension activities pertaining to weeds in the N.T. with direct responsibility for all facets of biological control. Major areas of interest are: 1. Control of *Salvinia molesta* by the weevil *Cyrtobagous singularis* at Nhulunbuy. 2. Three chrysomelids and one bruchid are undergoing rearing and host testing at the

CSIRO Long Pocket Laboratories prior to release for the biocontrol of *Mimosa pigra*, and two chrysomelids for the control of *Hyptis suaveolens*. 3. An effective biocontrol agent for *Pistia stratiotes*, a pantropical species, has been found on the flood plains of the top end of the N.T.

Nymphula sp. (the identification is being undertaken by Don Sands of the CSIRO) is responsible for the considerable damage of the local *Pistia* population.

The Agricultural Quarantine Service Section. At the beginning of 1981 Ted Fenner, formerly of Papua New Guinea, took up a newly created position in the Department of Primary Production. As Senior Quarantine Adviser (Plants) he is first resource person for the inspectorial staff on identification of plant disorders and appraisal of quarantine situations. He is also much involved with the N.T. component of the Northern Monitoring Program for exotic insects, particularly dacine fruit flies.

On the domestic quarantine front, a good part of his time is taken up with work on the palm leaf beetle, *Brontispa longissima*, so far known in mainland Australia only from Darwin and the Cooktown area. During the second half of May, Ted spent 12 days in Samoa (both Western and American) examining the activity of the pest there and the operation of a biological control program in Western Samoa. At the conclusion of his visit, he brought back a culture of the Eulophid parasite *Tetrastichus brontispae* and delivered these to Ian Galloway and Bill Yarrow in Brisbane for quarantine screening and safety testing.

Although Ted is a 'lone hand' in his field within the N.T. Agricultural Quarantine Service, he maintains close touch with the specialists in plant protection and plant production at the Berri-mah Research Farm, through who specimens needing further identification are channelled.

Alligator Rivers Region Research Institute, Jabiru

The Alligator Rivers Region Research Institute was created

within the Office of the Supervising Scientist by the Environment Protection (Alligator Rivers Region) Act 1978. The functions of the Institute are: a) to undertake, promote and assist research into the effects on the environment in the region of uranium mining operations, and b) to assess potential effects of uranium mining as revealed by such research in order to recommend adequate and systematic long-term monitoring procedures.

Ecological research into invertebrate animals has been conducted by consultants from external organisations under the direction of the Institute's Director (G.H. Riley), aquatic biologist (D. Clay), and terrestrial biologist (S.R. Morton). Two relatively small consultancies were conducted early in the Institute's existence: an examination of Odonata of the Magela Creek System (J.A.L. Watson, Division of Entomology, CSIRO); and a study of the Chironomidae of the Alligator Rivers Region (J. Martin, Department of Genetics, University of Melbourne). A further more extensive consultancy on the aquatic macroinvertebrates of the Magela Creek was conducted by R. Marchant (Department of Zoology, University of Adelaide).

Entomologists who feel that their expertise might fit them for contract work with the Institute are invited to submit their names and areas of interest for inclusion in our register of potential consultants to the Secretary, P.O. Box 387, Bondi Junction, N.S.W. 2022. Those who wish to obtain copies of Technical Memoranda and Research Reports published by the Office should contact the Publications Officer at the above address. Staff at the Institute's Laboratory in Jabiru (postal address: Post Office, Jabiru, N.T. 5796) welcome visitors.

Northern Territory Museum of Arts and Sciences

The new museum building was opened in September last year. The major priority of the Natural Sciences Division (of which the entomology department is a part) has been the establishment of a basic reference collection of the N.T. fauna. The insect collection, only about 2½ years old, contains a reasonable amount of material from all over the N.T. particularly the top end. A large portion of the collection is still unidentified and the taxonomists

willing to examine any groups are requested to contact the Curator, Dr Malipatil. Mali has been conducting and participating in insect faunal surveys at Fogg Dam, Kakadu N.P. and Katherine Gorge N.P. areas. Brief visits to the entomology department were paid by Mr G. Browning (University of Adelaide) to examine *Myrmecia*, and Dr Jon Majer (WAIT, Perth) to examine Formicidae. Jon stopped over on his way to the minesites at Weipa, Groote Eylandt and Gove where he is studying insect succession in the rehabilitated areas and also ant seed theft.

M.B. Malipatil
Bulletin Correspondent

PAPUA NEW GUINEA

Phil Spradbery is presently evaluating the technique for releasing chilled flies from aircraft and will compare this to the release of puparia; Les Readshaw participated in a dummy release run during his visit in April. Phil also reports that the rearing factory is operational, even if it does look like a plumber's nightmare, and the raising of 100,000 larvae per vat is now being achieved. Unfortunately, the low screwworm fly population presently occurring in the Port Moresby area has caused postponement of several projects concerned with the evaluation of the sterile insect release method for control of this pest.

Jan Greve tells us that the insect pollinator of the oil palm, *Elaeidobius camerunicus*, has been a startling success and that the fruit set has increased markedly since the introduction was made to West New Britain and Popondetta about a year ago; hand pollination is now a thing of the past. A more recent introduction has been that of the encyrtid, *Paracerattrocerus nyasicus*, from Queensland into the highlands for the control of white wax scale. The first release was made in January and field surveys since have detected it in low numbers. Brian Thistleton also says his part-time interest in dragonflies continues and that he hopes to go to Leiden to look at specimens during his leave in July. John Sutherland from Bubia reports that Hans Banziger, from the University of Chiang Mai in N.W. Thailand, visited the station in early May. Hans' interest is fruit piercing and lacryphagous moths. Also from Bubia we have the news that Graeme Young "goes finish"

after many years in Papua New Guinea where lately he has been involved in biological control of sugar cane and legume pests. Graeme is planning to settle in Sydney and we trust he will let us have his new address in due course.

Another PNG member presently in Australia is Marcus Arura who is sponsored by DPI for a year's study in entomology at the University of Queensland. In return a former Queensland graduate Anne Hill, is in PNG and is making herself known to the entomologists here.

A saddening event for the entomologists of Papua New Guinea has been the death, in April, of Dr Lin Gressitt. As the Director of Wau Ecology Institute he welcomed the involvement of all biologists in the study of the flora and fauna of this region. His contribution to the entomology of PNG has been unique and he is greatly missed.

Elaine Brough
PNG Bulletin Correspondent

NEWS FROM AFFILIATED SOCIETIES

NOTES FROM ENTOMOLOGICAL SOCIETY OF NEW SOUTH WALES

Workshop for Amateur Entomologists

The Society will be conducting a weekend "workshop" for amateur entomologists and collectors on the weekend of September 25th and 26th, 1982 at Sydney University. Topics which we hope to cover in lectures or demonstrations will include:

Insect photography; illustration; microscopes; microtechniques and dissection, including genitalia dissection; writing scientific papers and publication; collecting and preserving techniques; entomological literature and literature searching; rearing insects; plants and butterfly food plants; special research projects for amateurs; identification - techniques and procedures, keys, use of collections and taxonomic literature.

We hope to have demonstrations of collections, literature and equipment. A fee of about \$5 to \$10 will be charged to cover our expenses. Participants need not be members of the Society.

If you would like more information and a registration form, please contact:

Harley Rose,
Dept. of Plant Path. & Agric. Entomology,
Agriculture Faculty,
University of Sydney, NSW. 2006
Phone (business hours) 692 2528 or 692 2531

Society News

When Terry Houston was in Sydney, he gave a very entertaining up-to-the minute talk on "Beeing in the West". We now all know what to look for when we are in the field beeing.

We also have the latest from David James on his Wanderer butterfly tagging project. He is particularly interested in winter activity of *D. plexippus* and has been marking and releasing specimens west of the ranges, to see if they will tell him where the specimens in the more coastal overwintering population come from.

Another issue of the Society's journal "General and applied Entomology" appeared at the end of May.

We meet at the Australian Museum, on a Wednesday - anyone in Sydney is very welcome. Our programme is worked out as we go along, so if you are visiting Sydney check with Courtenay Smithers at the Museum or Harley Rose at Sydney University - you might be lucky enough to be there on the right night.

Courtenay Smithers

NOTES FROM ENTOMOLOGICAL SOCIETY OF VICTORIA

At the Society's AGM in June, Peter Kelly was re-elected as President, Peter Carwadine and Gordon Burns as Vice-Presidents, Tim New as Secretary, Ken Walker as Editor and Bob Condron as Treasurer.

Members have been very saddened to hear of Zoo Le Souef's passing (see elsewhere in this issue).

It has recently been decided to initiate a series of 'instruction sessions' to introduce members to some of the more formal aspects of insect biology. The first of these will be at the August meeting (20th August) when Tim New will introduce 'external morphology of insects'.

Peter Kelly

PRESIDENTIAL CORRESPONDENCE

11 March 1982

The Rt. Hon. I. Wilson,
Minister for Home Affairs and Environment,
P.O. Box 1252,
CANBERRA CITY. A.C.T. 2601

Dear Sir,

I am aware that your Department has recently prepared a draft Act to control the export and import of flora and fauna in accordance with the provisions of the Convention on International Trade in Endangered Species, and that this Act has been circulated to various authorities for comment.

There is considerable interchange of insect specimens for scientific purposes between entomologists resident in Australia and overseas. Indeed, this legitimate traffic in insect specimens far exceeds that for other biological groups and it is essential that it remain unimpeded if research on Australia's insect fauna is to continue at the current level.

As the national association of Australian entomologists, the Australian Entomological Society has a keen interest in matters which affect the interchange of scientific specimens. Accordingly, I write to request that a copy of the draft Act be also made avail-

able to this Society for comment.

Yours faithfully,

(Signed) Professor D.S. Kettle
PRESIDENT

28 April 1982

Dear Professor Kettle,

Thank you for your letter of 11 March 1982 concerning the Commonwealth's proposed wildlife trade legislation. Unfortunately normal practice prevents circulation of draft Bills to non-government organisations before being introduced into Parliament.

The proposed legislation has been referred to various Commonwealth and State Government organisations for comment. Discussions have also been held with many government bodies, including CSIRO's Division of Entomology and State Museums, and where necessary points arising from these discussions have been taken into account in finalising the Bill.

Thank you for your interest in this matter. Please be assured that it has always been intended that exchanges of dead insect material between bona-fide entomologists will not be impeded by the Bill. Indeed, in some respects such interchanges will be made easier under the new legislation.

Yours sincerely,

(Signed) Ian Wilson
Minister for Home Affairs
and Environment, Canberra

LETTER TO THE EDITOR

Venue of Entomological Society AGM

I understand that the next AGM is to be held at the University of New England, despite the fact that the ANZAAS meeting will be in Perth during that year.

This is disappointing news for all Western Australian entomologists, many of whom were looking forward to meeting their counterparts from elsewhere in Australia during 1983. Judging by the interest expressed to me by many members in having the opportunity to visit W.A., I imagine that this sentiment is not confined to Western Australians.

I wrote to the Secretary expressing the willingness of W.A. entomologists to host an AGM following an approach made to me by members at the Lyndoch AGM to host an AGM in W.A.

I understand that the possibility of our hosting the next AGM was barely discussed at the time of the Armidale decision and, as a result, I feel obliged to put on record our surprise at this neglect of W.A. by what is supposed to be a national scientific Society.

Jonathan D. Majer
W.A. Institute of Technology

RETIREMENT OF DR I.F.B. COMMON

The 23rd June, 1982 saw the retirement of Ian Common after 34 years with the Division of Entomology.

Ian joined the Division as Technical Secretary in 1948. His motives for doing so have never been questioned but it is believed that his interest was in the A.J. Turner collection of lepidoptera rather than the Technical Secretaryship. Similarly in 1951 his return to active research work on the lucerne flea led him to study the lepidopterous pests of pastures which, in turn, led him to the full-time taxonomic research on the lepidoptera for which he has become so well known.

Although Ian has already left Canberra for the warmer climes of Toowoomba, where he is building a new home complete with built in light sheets, he will continue his association with the Division as an Honorary Fellow. His colleagues all wish him a long and prosperous retirement leading to an increasing number of lepidopterological publications.

Murray Upton

REQUESTS

Exchange of Butterflies and Moths

The following letter has been received. "Are there any members of your Society who would like to correspond with my son and I on butterflies and moths. My oldest son, Derrick, age 7, and I collect and rear them as a hobby. We also collect books on butterflies and moths. We would like to trade or correspond with some of your members if possible."

Mr Don Baker,
171 Aniline Ave.,
Holland, Michigan, 49423
UNITED STATES

Survey of the incidence of allergies to insects

One of the hazards of working with animals in the laboratory is the possibility of becoming allergic to them. This has been well established with small mammals. Although there are reports in the literature of problems with insects in some laboratories, and there is anecdotal knowledge of such occurrences, little is known of the extent and degree of risks associated with exposure to insects. It was to overcome this lack that a Committee of the Entomological Society of America was established. A report has been published (R.A. Wirtz, *Bulletin of the Entomological Society of America*, 26: 356-360 (1980)) which shows that the risk is real and that allergy to insects is sufficiently common among Entomologists to warrant concern.

The membership of the Entomological Societies of the USA, Canada, and Mexico have been requested to participate in a survey by questionnaire. The chairman of the ESA committee, Capt. R.A. Wirtz, has invited our membership to participate in the survey and the Executive of the Society has agreed to permit the inclusion of the questionnaire with this Bulletin. It is hoped that the survey will establish the significance of the problem in Australia and identify any species which is a particular hazard.

Please complete the questionnaire and return it to me at the address on the back of the form. The completed forms will be retained by the Society and photocopies of the answers will be sent to Capt. Writz so that he can analyse the responses.

Advice on controlling exposures to insects and to allergenic dusts is given in the ESA report and in a pamphlet produced by the Centre for Overseas Pest Research. The latter is concerned with locusts, which produce potent allergens, but it is relevant for other situations. A bibliography on insects as a cause of inhalant allergies is available from the Division of Entomology (*Divisional Report No. 25, Second edition, 1982*).

Dr Tom Bellas,
CSIRO Division of Entomology,
Box 1700,
Canberra City. ACT. 2601

Meeting of Trichoptera Workers

It is hoped to organise a meeting of Caddis-fly workers for later this year. The present concept is that the program will involve arrival and registration on a Friday evening, presentation of papers and discussions on Saturday, and sampling/sightseeing on the Sunday.

The venue will probably be a Victorian country area with access to an interesting Trichoptera fauna. The weekend of 4-5 December has been suggested as suitable. Accommodation reservations will probably have to be finalised by early September, with notices and registration forms distributed to interested persons around mid August. Persons wishing to receive registration forms should contact me at the following address as soon as possible.

Mr John Dean,
MMBW Laboratories,
GPO Box 4343, Melbourne. Vic. 3001
Ph. (03) 615 4391

Appeal for fly larvae - specimens and data

I have just started work on a new conspectus of the immature stages of Diptera Cyclorrhapha, which I hope will provide a comprehensive reference to and an improved means of identification of higher fly larvae and puparia. The work will cover world material, but will have an Australian bias. I am anxious to make it as all-inclusive as possible, and I would be pleased to hear from anyone who has any relevant material (other than the commonest blowflies, calyptrate dung flies and *Musca domestica*) that I could borrow for examination. I would also welcome new breeding records from previously unknown environments. Material or records of Aschiza and Acalyptrates would be particularly welcome.

Paul Ferrar
CSIRO Division of Entomology
P.O. Box 1700
CANBERRA CITY. A.C.T. 2601

Request for Reprints on Immatures of Australian Coleoptera

A Japanese entomologist with a special interest in larvae and pupae of cerambycids has written requesting from members publications dealing with immatures of any group of beetles. In exchange he can offer specimens of Japanese cerambycids. Those interested should write to:-

Dr Shingo Nakamura,
1586-6, Hon-machi,
Shobara City,
Hiroshima Pref. JAPAN

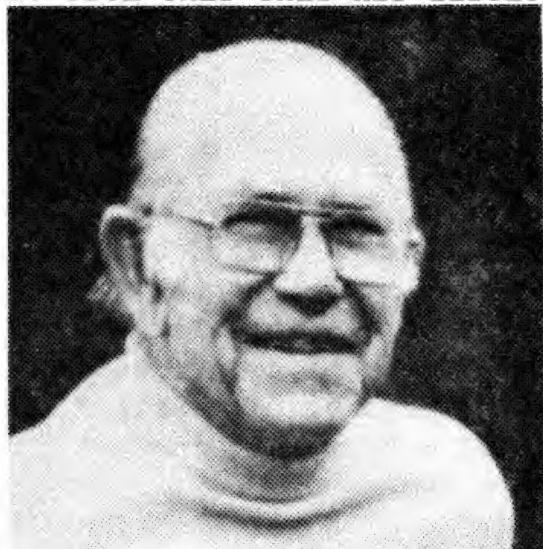
EXTRA CONFERENCE POSTERS

Surplus copies of the attractive poster printed to announce the Symposium arranged by CSIRO to mark "Australian Systematic Entomology - A Bicentenary Perspective" at the 13th A.G.M. are available. These may be obtained at \$3.00 each (plus \$1.00 postage) from Mr T.A. Weir, CSIRO Division of Entomology, P.O. Box 1700, Canberra City. A.C.T. 2601.

OBITUARIES

JOHN CECIL LeSOUEF (Dec 5, 1905 - June 21, 1982)

The doyen of amateur entomologists in Victoria, 'Zoo' LeSouef, passed away on June 21 after a period of severe illness. The son of prominent early biologist and Director of the Melbourne Zoo, W.H.D. LeSouef, 'Zoo' was actually born in the Melbourne Zoo and it is from this that his lifelong nickname derived. 'Zoo' had a



'Zoo' LeSouef

profound effect on development of entomology in Victoria and, through his extensive correspondence and field trips, was known to most entomologists in Australia. He joined the Entomological Society of Victoria in 1941 and was elected Secretary in 1942. He was the driving force behind the reformation of the Society in 1961, and his infectious enthusiasm was a source of inspiration to many of our members: particularly the encouragement he gave to younger entomologists will be remembered with affection and gratitude. A compulsive note-taker, with

a perceptive knowledge of Lepidoptera and a deep feeling for people and tradition, Zoo was a frequent contributor to the Victorian Entomologist (which he edited for some years) and published several papers in other journals. He is honoured by the skipper, Hesperilla crypsargyra lesouefi Tindale. Zoo had no formal entomological training and had a career in freelance journalism and broadcasting before turning to owning a store and later running the well-known Rosebud Aquarium. He was active in Rotary, and had recently been honoured by the award of their Paul Harris Fellowship. 'Zoo' will be remembered as a dynamic naturalist, whose attitudes were in the traditions of amateur entomology. Our sympathy is extended to his widow, Mary, with whom he shared so much, and his son Nick.

(Tim New)

JOHN R.T.SHORT, D.Phil., F.R.E.S.

John Short, Reader in Zoology, Australian National University, Canberra, died suddenly on May 5, 1982. John was born in Western Australia and graduated from the University of Western Australia. At

Oxford University he undertook pioneering studies of the morphology of the larval stages of Hymenoptera, eventually gaining a D.Phil. This work continued at the University College of Hull and the University of Aberdeen, and in recent years at the Australian National University. Several major papers on the classification and identification of larval Hymenoptera are a tribute to his technical and analytical skills. In the 1960's John served as the first warden of Garran Hall, a popular residential college at ANU. Beyond his science, John was deeply interested in music and the theatre. His reputation as an actor and public-speaker of striking ability, surprises many who knew him as a quiet, rather shy man.

(Ian Naumann)

WILLIAM ALEXANDER McDUGALL (1905 - 1982)

Retired Queensland Government Entomologist, Dr W.A.McDougall, died on January 7, 1982. He was a foundation member of the Australian Entomological Society. Mac's career of 45 years in D.P.I., the last 22 as head of Entomology, spanned times of great change in entomology, from the classical investigations of his earlier years to the availability in later years of modern pest control techniques. Trained under the redoubtable Professor Goddard at University of Queensland he joined the Bureau of Sugar Experiment

Stations in 1926, serving 1928-32 at Meringa and 1932-49 at Mackay. Work on sugarcane wireworms earned him his MSc in 1934, after which he turned to now-classic studies of canefield rats which led to a DSc 1949. During the latter half of his working life he recruited and supervised the group of entomologists who were to lead Agricultural Entomology into the vigorous discipline it is today in Queensland. He exercised a very personal style of leadership, encouraging further training in his staff, with the result that their record in higher degrees and publications became outstanding. His duties involved service on interstate committees; here he was often controversial but the minutes of these committees



W.A.McDougall

carry frequent evidence of the salutary effect of his comment. Most important was his Australia-wide contribution as a foundation member of the Committee of Commonwealth and States Entomologists. Within Queensland he was a member of the Agricultural Requirements Board from its inception in 1952; on this he instituted a rigid code for approval and regulation of insecticide use.

(Neil Heather)

J.LINSLEY GRESSITT (June 16,1914-April 26,1982)

There is always a special sense of loss when a dynamic person suffers accidental death at the peak of his productivity; such a feeling swept entomological circles throughout the Pacific, and beyond, when it was learned that Lin Gressitt had been killed, with his talented wife Margaret, in a civilian airliner crash near Canton, China, on April 26 this year. Born in Japan, Lin had a lifetime involvement with the Orient, and in later years with New Guinea. His career was marked by relentless travel and amazing field exploits, yet was accompanied by prodigious output of publications. His training was at Berkeley, mostly while resident in China during the turbulent war years - Lin's own words, from his Berkeley alumni magazine, are revealing: "I left for Canton in early June '39, via Vancouver, Honolulu, Japan, Shanghai and Hong Kong. At Canton, already under Japanese occupation, I helped maintain the collections and interpreted between the University and Japanese Army. In 1940 I made 3 trips into Free China, one through Haiphong and Hanoi just after France had fallen and before the Japanese took over, flying back to Hong Kong from W.China on a German plane which switched to Chinese pilots at Kweilin. I married in Japan in early '41 and we were interned in Canton in Dec. '41. I was able to continue rearing tortoise beetles for my PhD thesis and had my drawings printed and smuggled out with MSS through Free China. The second year internment was more strict and we were separated; then united in one camp last 3 months. Main excitement was bombing by U.S. planes; also my appendix was taken out by a Japanese major using only local anaesthetic. In Sept. '43 we had a chance to be exchanged, going by Japanese, former French, ship from Hong Kong, via Saigon and Singapore to Goa, where we got on the Gripsholm, going via Port Elizabeth and Rio, arriving New York, Dec. '43. During next 14 months I finished my PhD at Berkeley, then joined U.S. Naval Medical Research Unit No 2 and went to Guam. A commodore and I travelled overland from Nagasaki to Yokohama via Hiroshima before any of it was occupied, and I found my father still alive in Tokyo, though he died before I left Japan.....". Gressitt returned to China and was

interned twice more, when the communists took over in 1949 (though he managed to smuggle out T.C.Maa's huge collection to Taiwan) and again in Korea in 1950-51. His postwar career is well known, centring on the Bishop Museum where he has been Chairman of the Entomology Department, holding the Linus Allen Bishop Distinguished Chair of Zoology since 1964. Since the late 50s he has been deeply involved with exploration of the New Guinea fauna and made a deep personal commitment to the establishment of a Museum field station there which became the Wau Ecology Institute after PNG independence. He spent considerable periods in residence at Wau and developed effective educational conservation programmes tailored to an emergent tropical nation. Landmark publications of his in the NG sphere included his massive "Bibliography of NG Entomology" (with Joe Szent-Ivany) and the very recent 2-volume "Biogeography and Ecology in New Guinea" under his editorship. Lin Gressitt was a frequent visitor to Australia, and spent 1960-61 at the University of Queensland; his loss to the field of systematics and biogeography will be as deeply felt here as elsewhere. The Bishop Museum has established a Memorial Fund to Lin and Margaret Gressitt; contributors may nominate whether their donations should be used for Museum or Wau Ecology Institute purposes.

(Geoff Monteith)

COMING EVENTS

Symposium on Ecology of Wet-Dry Tropics

This major symposium will be arranged by the Ecological Society in Darwin during the period May 15-17, 1983. It reflects the recent increase in ecological research in Northern Australia and seeks to explore pattern and process in the biota of the Wet-Dry Tropics in Australia. It will be of interest to terrestrial, freshwater and marine ecologists alike, and of direct interest to those involved in management in the tropics. Those interested in attending or contributing should contact:

Dr M.G.Ridpath,
CSIRO Wildlife Research, PMB 44,
WINNELLIE.NT.5789

14th A.G.M., Australian Entomological Society

Advance notice has been given by the Organising Committee that the next AGM of our own Society will be held on May 14-18, 1983, at University of New England, Armidale.

ADDRESSES OF REGIONAL COUNCILLORS

- QLD: Dr G.B. Monteith, Queensland Museum, Gregory Terrace,
Fortitude Valley, Qld. 4006. 'phone (07) 52 2716
- Mr R.I. Storey, D.P.I., P.O. Box 149, Mareeba, Qld. 4880.
'phone (070) 92 1555
- NSW: Dr M.J. Fletcher, BCRI, PMB # 10, Rydalmere, NSW. 2116.
- Dr R.V. Gunning, Tamworth Agricultural Research Centre,
RMB 944, Tamworth, NSW. 2340
- ACT: Mr T.A. Weir, CSIRO Entomology, P.O. Box 1700, Canberra
City, ACT. 2601. 'phone (062) 46 4911
- Dr H.J. Banks, CSIRO Entomology, P.O. Box 1700, Canberra
City, ACT. 2601. 'phone (062) 46 4911
- VIC: Mr G. Berg, VPRI, Swan Street, Burnley, Vic. 3121
- Dr T.R. New, Zoology Department, La Trobe University,
Bundoora, Vic. 2083. 'phone (03) 479 2247
- TAS: Mr R. Brieze-Stegeman, Dept. of Agriculture, St John's
Ave, Newtown, Tas. 7008
- SA: Ms P. Greenslade, South Australian Museum, Adelaide,
SA. 5000
- WA: Mr A. Postle, Department of Biology, WA Institute of
Technology, Hayman Rd, South Bentley, WA. 6102.
'phone (09) 350 7700

BULLETIN CORRESPONDENTS

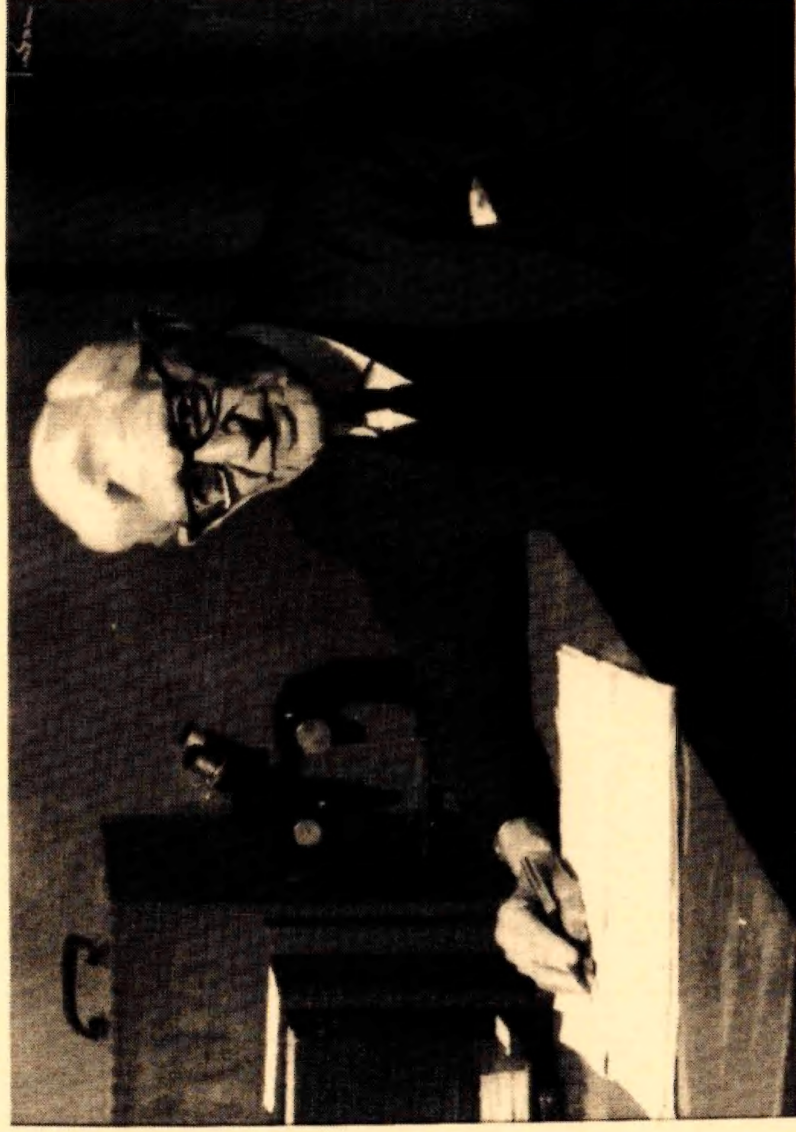
- N.T. Dr M.B. Malipatil, Museum of Northern Territory, P.O. Box
4646, Darwin. N.T. 5794.
- P.N.G. Dr E.J. Brough, Biology Department, University of Papua
New Guinea, Port Moresby. PNG.

DR M.J. FLETCHER
B.C.R.I.,
PMB 10,
RYDALMERE NSW 2116

HAVE WE YOUR CORRECT
NAME AND ADDRESS??
IF NOT WRITE TO THE
BULLETIN EDITOR NOW!

AUSTRALIAN ENTOMOLOGICAL SOCIETY

IAN MACKERRAS MEMORIAL MEDAL APPEAL



Portrait in oils by G. Inson, 1978.
By permission Director, QIMR, Brisbane.

Ian Murray Mackerras

THE MAN

Ian Murray Mackerras (1898-1980), MB, ChM, DSc, FRACP, FRCPA, FAA, Hon.FRES, entomologist, microbiologist and parasitologist, was the first President (1965-67) and first Honorary Member (1969) of the Australian Entomological Society. His contribution to Australian entomology is without parallel and embraces four main fields. He was a leader and active participant in important research on insect parasites and vector-borne diseases from 1928-1939 in the CSIR Division of Economic Entomology on sheep blowflies, buffalo fly, and ephemeral fever and anaplasmosis of cattle, and in 1946-7 on cattle tick; in the A.I.F. 1939-45 (as Director of Entomology from 1942) on malaria, dengue and scrub typhus and their vectors in Australia and New Guinea; as first Director of the Queensland Institute of Medical Research (1947-61) on arbo viruses. His publications on the taxonomy of Diptera span the period 1922-77 and include Nemestrinidae, Culicidae, Mydidae, Simuliidae, and his distinguished monographic series on the Tabanidae of Australia. His contributions to zoogeography were equally outstanding. All Australian entomologists have continuing cause to be grateful to Ian Mackerras for two publications of particular note, "The Insects of Australia" (1970) and its "Supplement" (1974). As Senior Research Fellow, CSIRO Division of Entomology (1961-74) he was Editor of both volumes, as well as author of several chapters, but because certain editorial decisions were overruled he refused to let his name appear as editor. His breadth of expertise and unswerving commitment to the highest standards of scientific writing made these books landmarks among world entomological publications. He was a great supporter of scientific societies and twice President of the Entomological Society of Queensland. It was largely due to his tact and personal efforts that a widely acceptable constitution was drafted facilitating formation of a long-overdue national body, the Australian Entomological Society, in 1965. As foundation President he gave wise guidance in its formative years. It has been justly said of Ian Mackerras that his humanitarian and intellectual achievements rate him as one of the great Australians of the century. As entomologists we may be proud to be part of the discipline in which he made his greatest contributions.

THE MEDAL

There is currently no major research award available in the sphere of Australian entomology. The Australian Entomological Society has instituted the Ian Mackerras Medal to fill this need and it is intended that this should become the most prestigious award available to an Australian entomologist. The Medal will be awarded biennially to a member of the Society, nominated by fellow members, and judged by a selection panel to have published entomological research contributions of outstanding excellence. Nominees may not exceed 50 years of age. Where practicable the Medal shall be awarded at a ceremony at the Annual Meeting of the Society.

THE APPEAL

The Ian Mackerras Medal is to be established from contributions by entomologists and their organizations. All insect biologists who consult "Insects of Australia" will be aware of just one aspect of the debt which Australian entomology owes Ian Mackerras. This appeal gives an opportunity to repay a little of that debt to the memory of this remarkable man. The Society invites you to use the form below for your contribution. Donors will be acknowledged in the Society News Bulletin.

IAN MACKERRAS MEMORIAL MEDAL APPEAL

Herewith my donation of \$:
(Make cheques payable to Australian Entomological Society)

NAME:

ADDRESS:

☐ Tick if receipt
required

Post contributions to: The Treasurer, Mr G.A. Holloway, Australian Museum, P.O. Box A285, SYDNEY SOUTH, N.S.W., 2000.

DIRECTORY OF AUSTRALIAN ENTOMOLOGY

Please print clearly. Example overleaf.

Please return to:

Dr P.B. Carne
Public Officer, Aust. Ent. Soc.
c/- CSIRO Division of Entomology
P.O. Box 1700
Canberra City A.C.T. 2601.

SUPPLEMENT TO
NEWS BULLETIN
AUST. ENT. SOC.

Name (surname, title, initials):

Postal address (institution (if any), box number (or street), suburb, state, postcode):

Telephone number (including area code):

Affiliation code (see below). Further details (e.g., department) should be added in parentheses after the code.

Field-of-interest code(s) (see below). Further details (i.e., subfields) may be added in parentheses after each code.
Place principal interest first.

Affiliation Codes

- | | |
|--|---|
| 01 Unattached | 25 Qld Museum |
| 02 Non-Gov't Organisations | 26 SA Museum |
| 03 CAE's and Institutes of Technology | 27 Queen Victoria Museum |
| 04 CSIRO Div'n Tropical Animal Science | 28 Tas Museum & Art Gallery |
| 05 CSIRO Div'n Entomology | 29 National Museum of Vic |
| 06 CSIRO - Other Div'ns | 30 WA Museum |
| 07 Other C'wlth Gov't Institutions | 31 Australian National University |
| 08 NSW Dep't Agriculture | 32 University of NSW |
| 09 NSW Gov't - Other Dep'ts | 33 University of Sydney |
| 10 NT Dep't Primary Production | 34 Macquarie University |
| 11 NT Gov't - Other Dep'ts | 35 University of New England |
| 12 Qld Dep't Lands | 36 The University of Newcastle |
| 13 Qld Dep't Primary Industries | 37 James Cook University of N Qld |
| 14 Qld Gov't - Other Dep'ts | 38 University of Qld |
| 15 SA Dep't Agriculture | 39 Griffith University |
| 16 SA Gov't - Other Dep'ts | 40 The Flinders University of SA |
| 17 Tas Dep't Agriculture | 41 The University of Adelaide/Waite Institute |
| 18 Tas Gov't - Other Dep'ts | 42 University of Tasmania |
| 19 Vic Dep't Agriculture | 43 University of Melbourne |
| 20 Vic Gov't - Other Dep'ts | 44 Monash University |
| 21 WA Dep't Agriculture | 45 Deakin University |
| 22 WA Gov't - Other Dep'ts | 46 La Trobe University |
| 23 Australian Museum | 47 The University of WA |
| 24 Museums & Art Galleries of NT | 48 Murdoch University |

Field-of-interest Codes

- | | |
|--|---|
| 01 Acarology | 25 Pathology |
| 02 Agricultural Entomology | 26 Pest Management |
| 03 Apiculture | 27 Pesticide Registration, Residues, Toxicology |
| 04 Behaviour | 28 Pesticide Resistance |
| 05 Biochemistry inc. Insect Chemistry | 29 Photography & Illustration |
| 06 Biological Control | 30 Physiology |
| 07 Biology (General) | 31 Quarantine Entomology |
| 08 Cave Insects | 32 Soil & Litter Arthropods |
| 09 Chemical Control | 33 Stored Products Insects |
| 10 Computing Methods | 34 Taxonomy (General) |
| 11 Cytogenetics | 35 Taxonomy of Arachnida |
| 12 Ecology | 36 Taxonomy of Coleoptera |
| 13 Field Crop Pests | 37 Taxonomy of Diptera |
| 14 Forest Entomology | 38 Taxonomy of Hemiptera |
| 15 Forest Products Insects | 39 Taxonomy of Hymenoptera |
| 16 Fossil Insects | 40 Taxonomy of Lepidoptera |
| 17 Genetics | 41 Taxonomy of Orthoptera |
| 18 Host-Parasite Interactions (Animal) | 42 Taxonomy of Other Orders |
| 19 Host-Parasite Interactions (Plant) | 43 Temperate Fruit Pests |
| 20 Insect Damage Assessment | 44 Tissue Culture |
| 21 Medical & Public Health Entomology | 45 Tropical Crop Entomology |
| 22 Morphology inc. Ultrastructure | 46 Tropical & Subtropical Fruit Pests |
| 23 Neurobiology | 47 Vectors of Plant Diseases |
| 24 Pasture Pests | 48 Vegetable Pests |
| | 49 Veterinary Entomology |
| | 50 Zoogeography |

DIRECTORY OF AUSTRALIAN ENTOMOLOGY

Example Only

Please return to:

Dr P.B. Carne
Public Officer, Aust. Ent. Soc.
c/- CSIRO Division of Entomology
P.O. Box 1700
Canberra City A.C.T. 2601.

Name (surname, title, initials):

Moore, Dr B.P.

Postal address (institution (if any), box number (or street), suburb, state, postcode):

CSIRO Division of Entomology

P.O. Box 1700

Canberra City ACT 2601

Telephone number (including area code):

(062) 465967

Affiliation code (see below). Further details (e.g., department) should be added in parentheses after the code.

05

Field-of-interest code(s) (see below). Further details (i.e., subfields) may be added in parentheses after each code.

Place principal interest first.

05 (chemotaxonomy) 36 (Carabidae, Lucanidae)

08 50 29